

# axiom<sup>TM</sup>



## The 30 Year Horizon

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Volume 10: Axiom Algebra: Implementation

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## New Foreword

On October 1, 2001 Axiom was withdrawn from the market and ended life as a commercial product. On September 3, 2002 Axiom was released under the Modified BSD license, including this document. On August 27, 2003 Axiom was released as free and open source software available for download from the Free Software Foundation's website, Savannah.

Work on Axiom has had the generous support of the Center for Algorithms and Interactive Scientific Computation (CAISS) at City College of New York. Special thanks go to Dr. Gilbert Baumslag for his support of the long term goal.

The online version of this documentation is roughly 1000 pages. In order to make printed versions we've broken it up into three volumes. The first volume is tutorial in nature. The second volume is for programmers. The third volume is reference material. We've also added a fourth volume for developers. All of these changes represent an experiment in print-on-demand delivery of documentation. Time will tell whether the experiment succeeded.

Axiom has been in existence for over thirty years. It is estimated to contain about three hundred man-years of research and has, as of September 3, 2003, 143 people listed in the credits. All of these people have contributed directly or indirectly to making Axiom available. Axiom is being passed to the next generation. I'm looking forward to future milestones.

With that in mind I've introduced the theme of the "30 year horizon". We must invent the tools that support the Computational Mathematician working 30 years from now. How will research be done when every bit of mathematical knowledge is online and instantly available? What happens when we scale Axiom by a factor of 100, giving us 1.1 million domains? How can we integrate theory with code? How will we integrate theorems and proofs of the mathematics with space-time complexity proofs and running code? What visualization tools are needed? How do we support the conceptual structures and semantics of mathematics in effective ways? How do we support results from the sciences? How do we teach the next generation to be effective Computational Mathematicians?

The "30 year horizon" is much nearer than it appears.

Tim Daly  
CAISS, City College of New York  
November 10, 2003 ((iHy))



# Chapter 1

## The Algebra Makefile

### 1.1 Adding new algebra

This is a complex process by its very nature. Developers and Maintainers who undertake the process need to understand quite a lot of detail. The ultimate steps to add algebra are tedious but simple. Note that only algebra code that gets shipped with the system needs to undergo this process. User code can be compiled once the distributed algebra exists and does not need either this Makefile or this installation process.

Since understanding is the key to making correct changes to this file I'll work on explaining the details of why things need to exist.

The first idea that you need to understand is the overall process of adding algebra code. Lets assume that you have a brand new spad file, called `bsd.spad` containing a simple domain BSD. The steps in the process of adding this file are:

1. Find out where the algebra code lives in the lattice.
  - (a) Start a new interpsys session. This will give you a clean build.
  - (b) `)set mes auto on` – This will allow us to see what algebra files get loaded during compile
  - (c) `)co BAR.spad`
  - (d) We collect all the names of the algebra files BSD loaded. Look for lines that say a file is loaded. Collect all of the names of those files.
  - (e) For each of the loaded files determine which layer contains the loaded file by searching this file. For instance, if `BAR.spad` required `FSAGG` then look for `/FSAGG.o`, which resides in layer 13.
  - (f) Determine the highest layer (e.g. 13) that contains the required files and add the new algebra file (e.g. `BSD.o`) in the next layer (e.g. 14).
  - (g) Next we need to create the graph structure information. This involves creating a two part stanza of information. For instance,

```
"BSD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BSD",
      shape=ellipse]
/*"BSD" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "KONVERT"; "INT"}*/
/*"BSD" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"BSD" -> {"IEVALAB"; "CLAGG"; "SETAGG"; "FINITE"; "OM"; "PATMAB"}*/
"BSD" -> "FSAGG"
```

- (h) The first part determines the color, shape of the graph node, and a link to the book containing the source code. The color and name of the book are related:
    - i. #4488FF == bookvol10.2
    - ii. #88FF44 == bookvol10.3
    - iii. #FF4488 == bookvol10.4
    - iv. #444488 == bookvol10.5
  - (i) The second part is the graph structure. All of the loaded algebra files are listed (currently as comments due to the size of the complete graph). In particular, the node that “supports” BSD is FSAGG so we make sure that the graph edge “BSD” -> “FSAGG” is uncommented.
2. Insert the documentation after the layer (e.g after layer 14). This documentation is used to reconstruct the full and partial graphs.
  3. Insert the `$(OUT)/BSD.o` file into the layer’s file list. This will cause the algebra to build after all of the algebra it depends on is built.
  4. Add the algebra to the books

## 1.2 Adding the algebra to the proper book

The algebra sources are in 4 books:

- bookvol10.2 == Category
- bookvol10.3 == Domain
- bookvol10.4 == Package
- bookvol10.5 == Numeric

The algebra in these files is structured slightly differently for each one. Follow the directions for the kind of algebra you are adding.

### Adding a Category

### Adding a Domain

In the Domains book we see that each domain is in alphabetic order by the **full domain name**, not by the abbreviation. So for BSD we see several parts.

### The section separator

This gives a visual and logical separation for each domain.

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\section{domain BSD BasicStochasticDifferential}
```

### The input section

This is a standard input file format. It will be extracted from the book during the testing process so we can keep the test cases with the domain. The `-R` lines are the commented output of actually running the functions. Note that `-` is the comment character in Axiom. The `"regress"` function will run the code and then compare the actual output with the lines marked `"-R"` and report any differences.

You can create this file by:

- Start Axiom
- make a `bsd.input` file with all of your algebra tests
- `)co BSD` – compile your algebra to make sure it is up to date
- `)spool BSD.output` – this will put all output into a file
- `)read bsd` – this will read the tests and the output will be stored in `BSD.output`
- Modify the `BSD.output` file to have the same format using `"-S n of N"` to start the test, `"-R"` to prefix the actual output, and `"-E n"` to end the test.
- save the test as `bsdtest.input`
- Validate the newly formatted test file (`bsdtest.input`):
  - start a new Axiom
  - `)co BSD` – compile your new algebra
  - `)read bsdtest.input` – BE SURE to use the new test file format. If you did it right it will create a new file called `BasicStochasticDifferential.output`
  - `)lisp (regress "BasicStochasticDifferential.output")` – this will run the `regress` function which compares the actual output with the expected output and reports success or failure.
  - fix up failures and repeat until none remain
  - add the contents of `bsdtest.input` to the algebra file

### The input section

Here we use BasicStochasticDifferential.output to create a set of test cases. These are automatically extracted as part of the build process by the function “makeInputFiles”. This function is in the tangle.lisp file.

```
)set break resume
)sys rm -f BasicStochasticDifferential.output
)spool BasicStochasticDifferential.output
)set message test on
)set message auto off
)clear all
--S 1 of 2
q := D(p, x)
--R
--R
--R
--R (6)  0.1x + 0.10
--R
--R                                          Type: Polynomial BinaryExpansion
--E 1

--S 2 of 2
g := gcd(p, q)
--R
--R
--R
--R (7)  x + 1.01
--R
--R                                          Type: Polynomial BinaryExpansion
--E 2

)spool
)lisp (bye)
```

### The help section

This section becomes a help file in the distributed Axiom system. This section is automatically extracted as part of the build process by the function “makeHelpFiles”. This function is in the tangle.lisp file. The help section gets typed out when the user types:

```
)help BasicStochasticDifferential

begin{chunk}{BasicStochasticDifferential.help}
=====
BasicStochasticDifferential examples
=====
All rational numbers have repeating binary expansions. Operations to
```

access the individual bits of a binary expansion can be obtained by converting the value to `RadixExpansion(2)`. More examples of expansions are available with

The expansion (of type `BinaryExpansion`) of a rational number is returned by the `binary` operation.

```
r := binary(22/7)
---
11.001
Type: BinaryExpansion
```

Arithmetic is exact.

```
r + binary(6/7)
100
Type: BinaryExpansion
```

See Also:

```
o )help BasicStochasticDifferential
o )help HexadecimalExpansion
o )show BasicStochasticDifferential
```

end{chunk}

### The pagehead section

Next we create the format information for the book itself. This will control the display of the new algebra in the book. The “pagehead” macro formats a new section for this algebra and adds it to the proper indexing and other housekeeping sections.

The “pagepic” creates a graph image inline showing the subgraph containing this algebra from the full graph. This information is kept in this file (see the graph subsection below). The “1.00” is a scaling factor for the graph.

The “pageto” macro inserts HTML anchors into the PDF file so there is a way to navigate to algebra that is “above” this domain in the graph. There can be multiple `pageto` macros.

The “pagefrom” macro inserts HTML anchors into the PDF file so there is a way to navigate to algebra that is “below” this domain in the graph. There can be multiple `pagefrom` macros.

Together these two macros, `pageto` and `pagefrom`, allow the user to follow the thread of domains in the PDF documentation.

```
\pagehead{BasicStochasticDifferential}{BSD}
\pagepic{ps/v103basicstochasticdifferential.ps}{BSD}{1.00}
{\bf See}\
\pageto{HexadecimalExpansion}{HEXADEC}
```

### The Exports section

This shows the same information as the “)show” function in a running Axiom. The “cross” macro adds information to the index to cross reference the domain and the functions.

```
{\bf Exports:}\\
\begin{tabular}{l}
\cross{BSD}{0} & & \\
\cross{BSD}{1} & & \\
\cross{BSD}{abs} & & \\
\cross{BSD}{associates?} & & \\
\cross{BSD}{binary} & & \\
\cross{BSD}{ceiling} & & \\
\cross{BSD}{characteristic} & & \\
\end{tabular}
```

### The Code section

This is the actual algebra. Note that the “++” comments from the description section are available at runtime using the “)describe” command. They have certain format limitations so be sure to check this in the final system.

The signatures have comments. If the comments are broken into two parts and the lines of the second part of the comment start with “++X” then these will be typed out as part of the output of the command “)d op”. For instance, in the code below for the “introduce!” function the comments read:

```
introduce!: (Symbol,Symbol) -> Union(%, "failed")
++ introduce!(X,dX) returns \axiom{dX} as \axiom{BSD} if it
++ isn't already in \axiom{BSD}
++
++X introduce!(t,dt)
```

When we type “)d op introduce!” in a running Axiom we will see the example text:

```
introduce!(t,dt)

<domain BSD BasicStochasticDifferential>=
)abbrev domain BSD BasicStochasticDifferential
++ Basic Operations: introduce!, copyBSD, copyIto, getSmgl
++ Related Domains: StochasticDifferential(R)
++ Also See:
++ AMS Classifications:
++ Keywords: stochastic differential, semimartingale.
++ Examples:
++ References:
++ Ito (1975), Kendall (1991a,b; 1993a,b; 1999a,b).
++ Description:
```

```

++ Based on Symbol: a domain of symbols
++ representing basic stochastic differentials, used
++ in StochasticDifferential(R) in the underlying
++ sparse multivariate polynomial representation.
++
++ We create new BSD only by coercion from Symbol
++ using a special function introduce! first of all to
++ add to a private set SDset. We allow a separate
++ function convertIfCan which will check whether the
++ argument has previously been declared as a BSD.
BasicStochasticDifferential(): Category == Implementation where
  INT ==> Integer
  OF ==> OutputForm
  Category ==> OrderedSet with
    ConvertibleTo(Symbol)

convertIfCan: Symbol -> Union(%, "failed")
  ++ convertIfCan(ds) transforms \axiom{dX} into a \axiom{BSD}
  ++ if possible (if \axiom{introduce(X,dX)} has
  ++ been invoked previously).

convert: Symbol -> %
  ++ convert(dX) transforms \axiom{dX} into a \axiom{BSD}
  ++ if possible and otherwise produces an error.

introduce!: (Symbol,Symbol) -> Union(%, "failed")
  ++ introduce!(X,dX) returns \axiom{dX} as \axiom{BSD} if it
  ++ isn't already in \axiom{BSD}

d: Symbol -> Union(%,INT)
  ++ d(X) returns \axiom{dX} if \axiom{tableIto(X)=dX}
  ++ and otherwise returns \axiom{0}

copyBSD:() -> List %
  ++ copyBSD() returns \axiom{setBSD} as a list of \axiom{BSD}.
copyIto:() -> Table(Symbol,%)
  ++ copyIto() returns the table relating semimartingales
  ++ to basic stochastic differentials.
getSmgl: % -> Union(Symbol,"failed")
  ++ getSmgl(bsd) returns the semimartingale \axiom{S} related
  ++ to the basic stochastic differential \axiom{bsd} by
  ++ \axiom{introduce!}

Implementation ==> Symbol add

Rep := Symbol

setBSD := empty()$Set(Symbol)
tableIto:Table(Symbol,%) := table()
tableBSD:Table(%,Symbol) := table()

```

```

convertIfCan(ds:Symbol):Union(%, "failed") ==
  not(member?(ds, setBSD)) => "failed"
ds::%

convert(ds:Symbol):% ==
  (du:=convertIfCan(ds))
  case "failed" =>
    print(hconcat(ds::Symbol::OF,
      message(" is not a stochastic differential")$OF))
    error "above causes failure in convert$BSD"
  du

introduce!(X,dX) ==
  member?(dX, setBSD) => "failed"
  insert!(dX, setBSD)
  tableBSD(dX::%) := X
  tableIto(X) := dX::%

d(X) ==
  search(X, tableIto) case "failed" => 0::INT
  tableIto(X)

copyBSD() == [ds::% for ds in members(setBSD)]
copyIto() == tableIto
getSmgl(ds::%):Union(Symbol, "failed") == tableBSD(ds)

```

### The dotabb section

This section is used to create the “ps/v103basicstochasticdifferential.ps” graph image used above. The actual code used is kept here so we can modify or reproduce the result. The first line is the current domain. The second line is the domain, category, or package that “supports” this domain in the previous layer. These three lines are create the subgraph of the main algebra graph.

```

<BINARY.dotabb>>=
"BSD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BSD",
      shape=ellipse]
"FSAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FSAGG"]
"BSD" -> "FSAGG"

\end{chunk}

```

In order to actually create the graph this code gets wrapped with the graphviz information. So you pick up the above lines and insert them into a file surrounded by the graphviz commands as in:

```

digraph pic {

```



```

fontsize=10;
bgcolor="#ECEA81";
node [shape=box, color=white, style=filled];

"BSD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BSD",
      shape=ellipse]
"FSAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FSAGG"]
"BSD" -> "FSAGG"

}

```

Save this in a file, say `bsd.dot`. To create the correct postscript file use the command:

```
dot -Teps bsd.dot >ps/v103basicstochasticdifferential.eps
```

Notice that the output goes into a `ps` subdirectory. It is named with the `v103` prefix, meaning it is intended for volume 10.3.

The `REGRESS` table contains the names of all of the regression files. These are the test case files we constructed for the algebra. Putting a chunk name in this table will extract the test case, run it, and run regression testing on it looking for failures. The naming convention is the same as the `.input` file but uses `.regress` so the Makefile regression stanza is invoked. So, for our example, we need to add

```
BasicStochasticDifferential.regress
```

We must also add the domain to the `$globalExposureGroupAlist` in the interpreter (book volume 5). This is a lisp cons structure where the `CAR` is the domain name and the `CDR` is the domain abbreviation. So we add the line:

```
(|BasicStochasticDifferential| . BSD)
```

## Adding a Package

## Adding Numerics

### 1.3 Rebuilding the algebra from scratch

Compile order is important. Here we try to define the ordered lattice of `spad` file dependencies. However this is, in reality, a graph rather than a lattice. In order to break cycles in this graph we explicitly cache a few of the intermediate generated lisp code for certain files. These are marked throughout (both here and in the various pamphlet files) with the word **BOOTSTRAP**.

If we take a cycle such as **RING** we discover that in order to compile the `spad` code we must load the compiled definition of **RING**. In this case we must compile the cached lisp code before we try to compile the `spad` file.

The cycle for **SETCAT** is longer consisting of: **SETCAT** needs **SINT** needs **UFD** needs **GCDDOM** needs **COMRING** needs **RING** needs **RNG** needs **ABELGRP** needs **CABMON** needs **ABELMON** needs **ABELSG** needs **SETCAT**.

It is highly recommended that you try to become a developer of Axiom and read the archived mailing lists before you decide to change a cached file. In the fullness of time we will rewrite the whole algebra structure into a proper lattice if possible. Alternatively we'll reimplement the compiler to handle graphs. Or deeply adopt the extensible domains. Whatever we do will be much discussed (and cause much disgust) around the campfire. If you come up with a brilliant plan that gets adopted we'll even inscribe your name on a log and add it to the fire.

In the code that follows we find the categories, packages and domains that compile with no dependencies and call this set "layer 0". Next we find the categories, packages and domains that will compile using only "layer 0" code and call this "layer 1". We walk up the lattice in this fashion adding layers. Note that at layer 3 this process runs into cycles and we create the "layer 3 bootstrap" stanzas before continuing upward.

## 1.4 The Algebra Lattice Layers

### Layer 0 Bootstrap

The easiest way to find out where a spad file lives in the hierarchy is to create the following script (called 'show'):

```
echo ")co $1" | AXIOMsys >out
fgrep abbreviates out
fgrep "Loading" out | grep -v autoload
```

and then run it with `./show FOO` where the algebra source file is `FOO.spad`.

Each layer is followed by a layerpic chunk which gives the graphviz graph information. The graphviz header information is here:

— layerpic —

```
digraph pic {
  fontsize=10;
  bgcolor="\#ECEA81";
  node [shape=box, color=white, style=filled];
  ranksep=3.0;
  /* nodsep=inches */
  /* size="x,y", size="7.5,10" fits 8.5x11 page */
  /* ratio=auto */ /* page="x,y" */ /* generates multipage layout */
  /* margin=0 */

  "Category" [color="\#4488FF"]
  "Category" -> "."
```

```
"Domain" [color="#88FF44"]
"Domain" -> "."

"Package" [color="#FF4488"]
"Package" -> "."
```

### Completed spad files

Note well that none of the algebra stanzas should include these files in the preconditions otherwise we have an infinite compile loop. These files are originally bootstrapped from lisp code when we build the system for the first time but they are forcibly recompiled at the end of the build so they reflect current code (just in case someone changes the spad code but does not re-cache the generated lisp). If you add these files as preconditions (note that they are all in the **MID** directory rather than the **OUT** directory like everything else) then the final recompile will invalidate all of the rest of the algebra targets which will get rebuilt again causing these targets to be out of date. The rest of the loop is left up to the student.

The bootstrap process works because first we ask for the compiled lisp code stanzas (the `\${MID}/BAR.o` files), THEN we ask for the final algebra code stanzas (the `\${OUT}/BAR.o` files). This is a very subtle point so think it through carefully. Notice that this is the only layer calling for `\${MID}` files. All other layers call for `\${OUT}` files. If you break this the world will no longer compile so don't change it if you don't understand it.

```
LAYERBOOTSTRAP=${OUT}/XPR.o
```

### — layer0 bootstrap —

```
LAYERBOOTSTRAP=\
  ${MID}/ABELGRP.o  ${MID}/ABELGRP-.o  ${MID}/ABELMON.o  ${MID}/ABELMON-.o \
  ${MID}/ABELSG.o  ${MID}/ABELSG-.o  ${MID}/ALAGG.o  ${MID}/BOOLEAN.o \
  ${MID}/CABMON.o  ${MID}/CHAR.o  ${MID}/CLAGG.o  ${MID}/CLAGG-.o \
  ${MID}/COMRING.o  ${MID}/DFLOAT.o  ${MID}/DIFRING.o  ${MID}/DIFRING-.o \
  ${MID}/DIVRING.o  ${MID}/DIVRING-.o  ${MID}/ENTIRER.o  ${MID}/ES.o \
  ${MID}/ES-.o  ${MID}/EUCDOM.o  ${MID}/EUCDOM-.o  ${MID}/FFIELDC.o \
  ${MID}/FFIELDC-.o  ${MID}/FPS.o  ${MID}/FPS-.o  ${MID}/GCDDOM.o \
  ${MID}/GCDDOM-.o  ${MID}/HOAGG.o  ${MID}/HOAGG-.o  ${MID}/ILIST.o \
  ${MID}/INS.o  ${MID}/INS-.o  ${MID}/INT.o  ${MID}/INTDOM.o \
  ${MID}/INTDOM-.o  ${MID}/ISTRING.o  ${MID}/LIST.o  ${MID}/LNAGG.o \
  ${MID}/LNAGG-.o  ${MID}/LSAGG.o  ${MID}/LSAGG-.o  ${MID}/MONOID.o \
  ${MID}/MONOID-.o  ${MID}/MTSCAT.o  ${MID}/NNI.o  ${MID}/OINTDOM.o \
  ${MID}/ORDRING.o  ${MID}/ORDRING-.o  ${MID}/OUTFORM.o  ${MID}/PI.o \
  ${MID}/PRIMARR.o  ${MID}/POLYCAT.o  ${MID}/POLYCAT-.o  ${MID}/PSETCAT.o \
  ${MID}/PSETCAT-.o  ${MID}/QFCAT.o  ${MID}/QFCAT-.o  ${MID}/RCAGG.o \
```

```

${MID}/RCAGG-.o    ${MID}/REF.o      ${MID}/RING.o      ${MID}/RING-.o    \
${MID}/RNG.o       ${MID}/RNS.o      ${MID}/RNS-.o      ${MID}/SETAGG.o   \
${MID}/SETAGG-.o   ${MID}/SETCAT.o    ${MID}/SETCAT-.o   ${MID}/SINT.o     \
${MID}/STAGG.o     ${MID}/STAGG-.o   ${MID}/SYMBOL.o    ${MID}/TSETCAT.o  \
${MID}/TSETCAT-.o  ${MID}/UFD.o       ${MID}/UFD-.o      ${MID}/ULSCAT.o   \
${MID}/UPOLYC.o    ${MID}/UPOLYC-.o  ${MID}/URAGG.o     ${MID}/URAGG-.o   \
${MID}/VECTOR.o \
layer0bootstrap

```

---

— layer0 copy —

```

LAYEROCOPY=\
  ${OUT}/ABELGRP.o  ${OUT}/ABELGRP-.o  ${OUT}/ABELMON.o  ${OUT}/ABELMON-.o \
  ${OUT}/ABELSG.o   ${OUT}/ABELSG-.o  ${OUT}/ALAGG.o    ${OUT}/BOOLEAN.o  \
  ${OUT}/CABMON.o   ${OUT}/CHAR.o     ${OUT}/CLAGG.o    ${OUT}/CLAGG-.o   \
  ${OUT}/COMRING.o  ${OUT}/DFLOAT.o    ${OUT}/DIFRING.o  ${OUT}/DIFRING-.o \
  ${OUT}/DIVRING.o  ${OUT}/DIVRING-.o  ${OUT}/ENTIRER.o  ${OUT}/ES.o       \
  ${OUT}/ES-.o      ${OUT}/EUCDOM.o    ${OUT}/EUCDOM-.o  ${OUT}/FFIELDC.o  \
  ${OUT}/FFIELDC-.o ${OUT}/FPS.o       ${OUT}/FPS-.o     ${OUT}/GCDDOM.o   \
  ${OUT}/GCDDOM-.o  ${OUT}/HOAGG.o     ${OUT}/HOAGG-.o   ${OUT}/ILIST.o    \
  ${OUT}/INS.o      ${OUT}/INS-.o      ${OUT}/INT.o       ${OUT}/INTDOM.o   \
  ${OUT}/INTDOM-.o  ${OUT}/ISTRING.o   ${OUT}/LIST.o     ${OUT}/LNAGG.o    \
  ${OUT}/LNAGG-.o   ${OUT}/LSAGG.o     ${OUT}/LSAGG-.o   ${OUT}/MONOID.o   \
  ${OUT}/MONOID-.o  ${OUT}/MTSCAT.o    ${OUT}/NNI.o      ${OUT}/OINTDOM.o  \
  ${OUT}/ORDRING.o  ${OUT}/ORDRING-.o  ${OUT}/OUTFORM.o  ${OUT}/PI.o       \
  ${OUT}/PRIMARR.o  ${OUT}/POLYCAT.o    ${OUT}/POLYCAT-.o  ${OUT}/PSETCAT.o  \
  ${OUT}/PSETCAT-.o ${OUT}/QFCAT.o     ${OUT}/QFCAT-.o   ${OUT}/RCAGG.o    \
  ${OUT}/RCAGG-.o   ${OUT}/REF.o       ${OUT}/RING.o     ${OUT}/RING-.o    \
  ${OUT}/RNG.o      ${OUT}/RNS.o       ${OUT}/RNS-.o     ${OUT}/SETAGG.o   \
  ${OUT}/SETAGG-.o  ${OUT}/SETCAT.o    ${OUT}/SETCAT-.o  ${OUT}/SINT.o     \
  ${OUT}/STAGG.o    ${OUT}/STAGG-.o    ${OUT}/SYMBOL.o   ${OUT}/TSETCAT.o  \
  ${OUT}/TSETCAT-.o ${OUT}/UFD.o       ${OUT}/UFD-.o     ${OUT}/ULSCAT.o   \
  ${OUT}/UPOLYC.o   ${OUT}/UPOLYC-.o   ${OUT}/URAGG.o    ${OUT}/URAGG-.o   \
  ${OUT}/VECTOR.o \
  layer0copy

```

## Layer 0

Depends on: Category Domain Package Bootstrap

Used by next layer: BASTYPE CFCAT KOERCE KONVERT TYPE

— layer0 —

```

LAYER0=\
  ${OUT}/AHYP.o      ${OUT}/ATADDVA.o  ${OUT}/ATCENRL.o  ${OUT}/ATCS.o \
  ${OUT}/ATAPPRO.o   ${OUT}/ATARBEX.o \
  ${OUT}/ATARBPR.o   ${OUT}/ATCANCL.o  ${OUT}/ATCANON.o  ${OUT}/ATCUNOR.o \
  ${OUT}/ATFINAG.o   ${OUT}/ATJACID.o  ${OUT}/ATLR.o      ${OUT}/ATLUNIT.o \
  ${OUT}/ATMULVA.o   ${OUT}/ATNOTHR.o  ${OUT}/ATNULSQ.o \
  ${OUT}/ATNZDIV.o   ${OUT}/ATPOSET.o \
  ${OUT}/ATSHMUT.o \
  ${OUT}/ATTREG.o    ${OUT}/ATUNIKN.o \
  ${OUT}/BASTYPE.o   ${OUT}/BASTYPE-.o \
  ${OUT}/CFCAT.o     ${OUT}/ELTAB.o    ${OUT}/ESCONT1.o  ${OUT}/GRDEF.o \
  ${OUT}/INTBIT.o    ${OUT}/KOERCE.o   ${OUT}/KONVERT.o \
  ${OUT}/MAGCDCO.o   ${OUT}/MSYSCMD.o \
  ${OUT}/ODEIFTBL.o  ${OUT}/OM.o       ${OUT}/OMCONN.o   ${OUT}/OMDEV.o \
  ${OUT}/OUT.o       ${OUT}/PRIMCAT.o  ${OUT}/PRINT.o    ${OUT}/PTRANFN.o \
  ${OUT}/RFDIST.o    ${OUT}/RIDIST.o   ${OUT}/SPFCAT.o   ${OUT}/TYPE.o \
layer0done

```

— layerpic —

```

/* layer 0 */
/* depends on: Category Domain Package Bootstrap */
/* provides: BASTYPE CFCAT KOERCE KONVERT TYPE */

"AHYP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=AHYP"]
"AHYP" -> "Category"

"ATADDVA" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATADDVA"];
"ATADDVA" -> "Category"

"ATCENRL" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATCENRL"];
"ATCENRL" -> "Category"

"ATCS" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATCS"];
"ATCS" -> "Category"

"ATAPPRO" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATAPPRO"];
"ATAPPRO" -> "Category"

"ATARBEX" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATARBEX"];
"ATARBEX" -> "Category"

"ATARBPR" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATARBPR"];
"ATARBPR" -> "Category"

```

```

"ATCANCL" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATCANCL"];
"ATCANCL" -> "Category"

"ATCANON" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATCANON"];
"ATCANON" -> "Category"

"ATCUNOR" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATCUNOR"];
"ATCUNOR" -> "Category"

"ATFINAG" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATFINAG"];
"ATFINAG" -> "Category"

"ATJACID" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATJACID"];
"ATJACID" -> "Category"

"ATLR" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATLR"];
"ATLR" -> "Category"

"ATLUNIT" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATLUNIT"];
"ATLUNIT" -> "Category"

"ATMULVA" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATMULVA"];
"ATMULVA" -> "Category"

"ATNOTHR" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATNOTHR"];
"ATNOTHR" -> "Category"

"ATNULSQ" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATNULSQ"];
"ATNULSQ" -> "Category"

"ATNZDIV" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATNZDIV"];
"ATNZDIV" -> "Category"

"ATSHMUT" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATSHMUT"];
"ATSHMUT" -> "Category"

"ATTREG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ATTREG"];
"ATTREG" -> "Category"

"ATUNIKN" [color=lightblue,href="bookvol10.2.pdf#nameddest=ATUNIKN"];
"ATUNIKN" -> "Category"

/* nobody seems to go to bastype by itself */
/* we combine these two to minimize edges in the graph */
/* note that koerce is duplicated */
"BASTYPE/KOERCE" [color="blue",href="bookvol10.2.pdf#nameddest=BASTYPE"];
"BASTYPE/KOERCE" -> "Category"
/*"BASTYPE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BASTYPE"]*/
/*"BASTYPE" -> "Category"*/
/*"BASTYPE" -> "BOOLEAN"*/

```

```

"KOERCE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=KOERCE"]
"KOERCE" -> "Category"

"BASTYPE-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BASTYPE"]
"BASTYPE-" -> "Domain"
/*"BASTYPE-" -> "BOOLEAN"*/

"CFCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=CFCAT"]
"CFCAT" -> "Category"

"ELTAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ELTAB"]
"ELTAB" -> "Category"

"ESCONT1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ESCONT1"]
"ESCONT1" -> "Package"
/*"ESCONT1" -> "DFLOAT"*/
/*"ESCONT1" -> "BOOLEAN"*/

"GRDEF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GRDEF"]
"GRDEF" -> "Package"
/*"GRDEF" -> "BOOLEAN"*/

"INTBIT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=INTBIT"]
"INTBIT" -> "Package"
/*"INTBIT" -> "INT"*/

"KONVERT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=KONVERT"]
"KONVERT" -> "Category"

"MAGCDOC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MAGCDOC"]
"MAGCDOC" -> "Category"

"MSYSCMD" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MSYSCMD"]
"MSYSCMD" -> "Package"

"ODEIFTBL" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ODEIFTBL"]
"ODEIFTBL" -> "Domain"

"OM" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OM"]
"OM" -> "Category"

"OMCONN" [color="#88FF44",href="bookvol10.3.pdf#nameddest=OMCONN"]
"OMCONN" -> "Domain"

"OMDEV" [color="#88FF44",href="bookvol10.3.pdf#nameddest=OMDEV"]
"OMDEV" -> "Domain"

"OUT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=OUT"]
"OUT" -> "Package"
/* "OUT" -> {"STRING", "CHAR", "SINT", "OUTFORM", "LIST", "INT"}*/

```

```

/* "OUT" -> {"PRIMARR", "A1AGG-", "ISTRING"} */

"PRIMCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PRIMCAT"]
"PRIMCAT" -> "Category"

"PRINT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PRINT"]
"PRINT" -> "Package"

"PTRANFN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PTRANFN"]
"PTRANFN" -> "Category"

"RFDIST" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RFDIST"]
"RFDIST" -> "Package"
/*"RFDIST" -> {"INT"; "PI"; "NNI"; "BOOLEAN"; "SINT"}*/

"RIDIST" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RIDIST"]
"RIDIST" -> "Package"
/*"RIDIST" -> {"SINT"; "NNI"; "INT"}*/

"SPFCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SPFCAT"]
"SPFCAT" -> "Category"

"TYPE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=TYPE"]
"TYPE" -> "Category"

```

## Layer 1

Depends on: BASTYPE CFCAT KOERCE KONVERT TYPE

Used by next layer: AGG ELTAGG FINITE FORTCAT IDPC IEVALAB LMODULE  
MONAD ORDSET PATMAB RETRACT RMODULE SGROUP

— layer1 —

```

LAYER1=\
  ${OUT}/AGG.o      ${OUT}/AGG-.o      ${OUT}/ANON.o      ${OUT}/ANY1.o      \
  ${OUT}/BLMETCT.o  \
  ${OUT}/COLOR.o    ${OUT}/COMBOPC.o    ${OUT}/COMM.o      ${OUT}/COMPAR.o    \
  ${OUT}/COMPPROP.o \
  ${OUT}/DROPT1.o   ${OUT}/ELTAGG.o    ${OUT}/ELTAGG-.o   ${OUT}/EQ2.o       \
  ${OUT}/EXIT.o     ${OUT}/FILECAT.o    ${OUT}/FINITE.o    ${OUT}/FINITE-.o   \
  ${OUT}/FNCAT.o    \
  ${OUT}/FORMULA1.o ${OUT}/FORTCAT.o    ${OUT}/IDPC.o      ${OUT}/IEVALAB.o   \
  ${OUT}/IEVALAB-.o ${OUT}/ITFUN2.o     ${OUT}/ITFUN3.o    ${OUT}/ITUPLE.o    \
  ${OUT}/LIST3.o    ${OUT}/LMODULE.o    ${OUT}/LOGIC.o     ${OUT}/LOGIC-.o    \

```



```

${OUT}/MAPHACK1.o ${OUT}/MAPHACK2.o ${OUT}/MAPHACK3.o ${OUT}/MAPPKG1.o \
${OUT}/MAPPKG2.o ${OUT}/MAPPKG3.o ${OUT}/MKBCFUNC.o ${OUT}/MKFUNC.o \
${OUT}/MKRECORD.o ${OUT}/MKUCFUNC.o ${OUT}/MONAD.o ${OUT}/MONAD-.o \
${OUT}/NIPROB.o ${OUT}/NONE.o ${OUT}/NONE1.o ${OUT}/NUMINT.o \
${OUT}/ODECAT.o ${OUT}/ODEPROB.o ${OUT}/OMENC.o ${OUT}/ONECOMP2.o \
${OUT}/OPTCAT.o ${OUT}/OPTPROB.o ${OUT}/ORDCOMP2.o ${OUT}/ORDSET.o \
${OUT}/ORDSET-.o ${OUT}/PALETTE.o ${OUT}/PARPCURV.o ${OUT}/PARPC2.o \
${OUT}/PARSCURV.o ${OUT}/PARSC2.o ${OUT}/PARSURF.o ${OUT}/PARSU2.o \
${OUT}/PATAB.o ${OUT}/PATMAB.o ${OUT}/PATRES2.o ${OUT}/PATTERN1.o \
${OUT}/PDECAT.o ${OUT}/PDEPROB.o ${OUT}/PLOT1.o ${OUT}/PPCURVE.o \
${OUT}/PSCURVE.o ${OUT}/REAL.o ${OUT}/REPDB.o ${OUT}/REPSQ.o \
${OUT}/RESLTC.o ${OUT}/RETRACT.o ${OUT}/RETRACT-.o ${OUT}/RMODULE.o \
${OUT}/SEGBIND2.o ${OUT}/SEGCAT.o ${OUT}/SETCATD.o \
${OUT}/SEXCAT.o ${OUT}/SGROUP.o \
${OUT}/SGROUP-.o ${OUT}/SPACEC.o ${OUT}/SPLNODE.o ${OUT}/STEP.o \
${OUT}/STNSR.o \
${OUT}/STREAM1.o ${OUT}/STREAM2.o ${OUT}/STREAM3.o ${OUT}/SUCH.o \
${OUT}/TEX1.o ${OUT}/UDVO.o ${OUT}/YSTREAM.o \
layer1done

```

— layerpic —

```

/* layer 1 */
/* depends on: BASTYPE CFCAT KOERCE KONVERT TYPE */
/* provides: FORTCAT RETRACT SEGCAT */

"AGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=AGG"]
"AGG" -> "TYPE"
/*"AGG" -> "NNI"*/
/*"AGG" -> "INT"*/

"AGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=AGG"]
"AGG-" -> "TYPE"
/*"AGG-" -> "NNI"*/
/*"AGG-" -> "INT"*/

"ANON" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ANON"]
/*"ANON" -> "SETCAT"*/
"ANON" -> "BASTYPE/KOERCE"
/*"ANON" -> "KOERCE"*/

"ANY1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ANY1"]
"ANY1" -> "TYPE"

"BLMETCT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BLMETCT"]
"BLMETCT" -> {"SETCAT", "BASTYPE/KOERCE"}

```

```

"CABMON" [color="#4488FF",href="bookvol10.2.pdf#nameddest=CABMON",
          shape=ellipse]
/*"CABMON" -> {"ABELMON"; "ABELSG"; "SETCAT"}*/
"CABMON" -> "BASTYPE/KOERCE"
/*"CABMON" -> "KOERCE"*/

"COLOR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=COLOR"]
/*"COLOR" -> "ABELSG"*/
/*"COLOR" -> "SETCAT"*/
"COLOR" -> "BASTYPE/KOERCE"
/*"COLOR" -> {"KOERCE"; "DFLOAT"; "INT"; "FPS-"; "RNS-"; "NNI"; "PI"}*/
/*"COLOR" -> "BOOLEAN"*/

"COMBOPC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=COMBOPC"]
"COMBOPC" -> "CFCAT"

"COMM" [color="#88FF44",href="bookvol10.3.pdf#nameddest=COMM"]
/*"COMM" -> "SETCAT"*/
"COMM" -> "BASTYPE/KOERCE"
/*"COMM" -> {"KOERCE"; "BOOLEAN"}*/

"COMPAR" [color="#4488FF",href="bookvol10.2.pdf#nameddest=COMPAR"]
/*"COMPAR" -> "SETCAT"*/
"COMPAR" -> "BASTYPE/KOERCE"

"COMPPROP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=COMPPROP"]
/*"COMPPROP" -> "SETCAT"*/
"COMPPROP" -> "BASTYPE/KOERCE"
/*"COMPPROP" -> {"KOERCE"; "BOOLEAN"}*/

"DROPT1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DROPT1"]
"DROPT1" -> "TYPE"

"ELTAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ELTAGG"]
/*"ELTAGG" -> "ELTAB"*/
/*"ELTAGG" -> "SETCAT"*/
"ELTAGG" -> "BASTYPE/KOERCE"
/*"ELTAGG" -> "KOERCE"*/
"ELTAGG" -> "TYPE"

"ELTAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ELTAGG"]
/*"ELTAGG-" -> {"ELTAB"; "SETCAT"}*/
"ELTAGG-" -> "BASTYPE/KOERCE"
/*"ELTAGG-" -> "KOERCE"*/
"ELTAGG-" -> "TYPE"

"EQ2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=EQ2"]
"EQ2" -> "TYPE"

```

```

"EXIT" [color="#88FF44",href="bookvol10.3.pdf#nameddest=EXIT"]
/*"EXIT" -> "SETCAT"*/
"EXIT" -> "BASTYPE/KOERCE"
/*"EXIT" -> "KOERCE"*/

"FILECAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FILECAT"]
/*"FILECAT" -> "SETCAT"*/
"FILECAT" -> "BASTYPE/KOERCE"
/*"FILECAT" -> "KOERCE"*/

"FINITE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FINITE"]
/*"FINITE" -> "SETCAT"*/
"FINITE" -> "BASTYPE/KOERCE"
/*"FINITE" -> "KOERCE"*/

"FNCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FNCAT"]
/*"FNCAT" -> "SETCAT"*/
"FNCAT" -> "BASTYPE/KOERCE"
/*"FNCAT" -> "KOERCE"*/

"FORMULA1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FORMULA1"]
/*"FORMULA1" -> "SETCAT"*/
"FORMULA1" -> "BASTYPE/KOERCE"
/*"FORMULA1" -> "KOERCE"*/

"FORTCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FORTCAT"]
"FORTCAT" -> "TYPE"
/*"FORTCAT" -> "KOERCE"*/

"IDPC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=IDPC"]
/*"IDPC" -> "SETCAT"*/
"IDPC" -> "BASTYPE/KOERCE"
/*"IDPC" -> "KOERCE"*/

"IEVALAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=IEVALAB"]
/*"IEVALAB" -> "SETCAT"*/
"IEVALAB" -> "BASTYPE/KOERCE"
/*"IEVALAB" -> "KOERCE"*/
"IEVALAB" -> "TYPE"

"IEVALAB-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IEVALAB"]
/*"IEVALAB-" -> "SETCAT"*/
"IEVALAB-" -> "BASTYPE/KOERCE"
/*"IEVALAB-" -> "KOERCE"*/
"IEVALAB-" -> "TYPE"

"ITFUN2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ITFUN2"]
"ITFUN2" -> "TYPE"

"ITFUN3" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ITFUN3"]

```

```

"ITFUN3" -> "TYPE"

"ITUPLE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ITUPLE"]
/*"ITUPLE" -> "KOERCE"*/
"ITUPLE" -> "TYPE"

"LIST3" [color="#FF4488",href="bookvol10.4.pdf#nameddest=LIST3"]
"LIST3" -> "TYPE"
/*"LIST3" -> {"INT"; "LIST"; "ILIST"}*/

"LOGIC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LOGIC"]
"LOGIC" -> "BASTYPE/KOERCE"

"LOGIC-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=LOGIC"]
"LOGIC-" -> "BASTYPE/KOERCE"

"MAPHACK1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPHACK1"]
/*"MAPHACK1" -> "SETCAT"*/
"MAPHACK1" -> "BASTYPE/KOERCE"
/*"MAPHACK1" -> {"KOERCE"; "SINT"; "NNI"; "INT"}*/

"MAPHACK2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPHACK2"]
/*"MAPHACK2" -> "SETCAT"*/
"MAPHACK2" -> "BASTYPE/KOERCE"
/*"MAPHACK2" -> "KOERCE"*/

"MAPHACK3" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPHACK3"]
/*"MAPHACK3" -> "SETCAT"*/
"MAPHACK3" -> "BASTYPE/KOERCE"
/*"MAPHACK3" -> "KOERCE"*/

"MAPPKG1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPPKG1"]
/*"MAPPKG1" -> "SETCAT"*/
"MAPPKG1" -> "BASTYPE/KOERCE"
/*"MAPPKG1" -> {"KOERCE"; "SINT"; "NNI"; "INT"; "BOOLEAN"}*/

"MAPPKG2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPPKG2"]
/*"MAPPKG2" -> "SETCAT"*/
"MAPPKG2" -> "BASTYPE/KOERCE"
/*"MAPPKG2" -> "KOERCE"*/

"MAPPKG3" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MAPPKG3"]
/*"MAPPKG3" -> "SETCAT"*/
"MAPPKG3" -> "BASTYPE/KOERCE"
/*"MAPPKG3" -> "KOERCE"*/

"MKBCFUNC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MKBCFUNC"]
"MKBCFUNC" -> "KONVERT"
"MKBCFUNC" -> "TYPE"

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"MKFUNC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MKFUNC"]
"MKFUNC" -> "KONVERT"
/*"MKFUNC" -> {"INT"; "LIST"}*/

"MKRECORD" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MKRECORD"]
"MKRECORD" -> "TYPE"

"MKUCFUNC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MKUCFUNC"]
"MKUCFUNC" -> "KONVERT"
"MKUCFUNC" -> "TYPE"

"MONAD" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MONAD"]
/*"MONAD" -> "SETCAT"*/
"MONAD" -> "BASTYPE/KOERCE"
/*"MONAD" -> {"KOERCE"; "PI"; "NNI"; "INT"; "SINT"}*/

"MONAD-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MONAD"]
/*"MONAD-" -> "SETCAT"*/
"MONAD-" -> "BASTYPE/KOERCE"
/*"MONAD-" -> {"KOERCE"; "PI"; "NNI"; "INT"; "SINT"}*/

"NIPROB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=NIPROB"]
/*"NIPROB" -> "SETCAT"*/
"NIPROB" -> "BASTYPE/KOERCE"
/*"NIPROB" -> "KOERCE"*/

"NONE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=NONE"]
/*"NONE" -> "SETCAT"*/
"NONE" -> "BASTYPE/KOERCE"
/*"NONE" -> "KOERCE"*/

"NONE1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=NONE1"]
"NONE1" -> "TYPE"

"NUMINT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=NUMINT"]
/*"NUMINT" -> "SETCAT"*/
"NUMINT" -> "BASTYPE/KOERCE"
/*"NUMINT" -> "KOERCE"*/

"ODECAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ODECAT"]
/*"ODECAT" -> "SETCAT"*/
"ODECAT" -> "BASTYPE/KOERCE"
/*"ODECAT" -> "KOERCE"*/

"ODEPROB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ODEPROB"]
/*"ODEPROB" -> "SETCAT"*/
"ODEPROB" -> "BASTYPE/KOERCE"
/*"ODEPROB" -> "KOERCE"*/

"OMENC" [color="#88FF44",href="bookvol10.3.pdf#nameddest=OMENC"]

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/*"OMENC" -> "SETCAT"*/
"OMENC" -> "BASTYPE/KOERCE"
/*"OMENC" -> {"KOERCE"; "SINT"}*/

"ONECOMP2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ONECOMP2"]
/*"ONECOMP2" -> "SETCAT"*/
"ONECOMP2" -> "BASTYPE/KOERCE"
/*"ONECOMP2" -> "KOERCE"*/

"OPTCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OPTCAT"]
/*"OPTCAT" -> "SETCAT"*/
"OPTCAT" -> "BASTYPE/KOERCE"
/*"OPTCAT" -> "KOERCE"*/

"OPTPROB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=OPTPROB"]
/*"OPTPROB" -> "SETCAT"*/
"OPTPROB" -> "BASTYPE/KOERCE"
/*"OPTPROB" -> "KOERCE"*/

"ORDCOMP2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ORDCOMP2"]
/*"ORDCOMP2" -> "SETCAT"*/
"ORDCOMP2" -> "BASTYPE/KOERCE"
/*"ORDCOMP2" -> {"KOERCE"; "SINT"}*/

"ORDSET" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ORDSET"]
/*"ORDSET" -> "SETCAT"*/
"ORDSET" -> "BASTYPE/KOERCE"
/*"ORDSET" -> {"KOERCE"; "BOOLEAN"}*/

"ORDSET-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ORDSET"]
/*"ORDSET-" -> "SETCAT"*/
"ORDSET-" -> "BASTYPE/KOERCE"
/*"ORDSET-" -> {"KOERCE"; "BOOLEAN"}*/

"PALETTE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PALETTE"]
/*"PALETTE" -> "SETCAT"*/
"PALETTE" -> "BASTYPE/KOERCE"
/*"PALETTE" -> {"KOERCE"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/

"PARPCURV" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PARPCURV"]
"PARPCURV" -> "TYPE"
/*"PARPCURV" -> "NNI"*/
/*"PARPCURV" -> "INT"*/

"PARPC2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PARPC2"]
"PARPC2" -> "TYPE"
/*"PARPC2" -> "NNI"*/
/*"PARPC2" -> "INT"*/

"PARSCURV" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PARSCURV"]

```

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"PARSCURV" -> "TYPE"
/*"PARSCURV" -> "NNI"*/
/*"PARSCURV" -> "INT"*/

"PARSC2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PARSC2"]
"PARSC2" -> "TYPE"
/*"PARSC2" -> "NNI"*/
/*"PARSC2" -> "INT"*/

"PARSURF" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PARSURF"]
"PARSURF" -> "TYPE"
/*"PARSURF" -> "NNI"*/
/*"PARSURF" -> "INT"*/

"PARSU2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PARSU2"]
"PARSU2" -> "TYPE"
/*"PARSU2" -> "NNI"*/
/*"PARSU2" -> "INT"*/

"PATAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PATAB"]
"PATAB" -> "KONVERT"

"PATMAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PATMAB"]
/*"PATMAB" -> "SETCAT"*/
"PATMAB" -> "BASTYPE/KOERCE"
/*"PATMAB" -> "KOERCE"*/

"PATRES2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PATRES2"]
/*"PATRES2" -> "SETCAT"*/
"PATRES2" -> "BASTYPE/KOERCE"
/*"PATRES2" -> "KOERCE" */

"PATTERN1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PATTERN1"]
/*"PATTERN1" -> "SETCAT"*/
"PATTERN1" -> "BASTYPE/KOERCE"
/*"PATTERN1" -> "KOERCE"*/
"PATTERN1" -> "TYPE"
/*"PATTERN1" -> {"INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "BOOLEAN"}*/

"PDECAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PDECAT"]
/*"PDECAT" -> "SETCAT"*/
"PDECAT" -> "BASTYPE/KOERCE"
/*"PDECAT" -> "KOERCE"*/

"PDEPROB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PDEPROB"]
/*"PDEPROB" -> "SETCAT"*/
"PDEPROB" -> "BASTYPE/KOERCE"
/*"PDEPROB" -> "KOERCE"*/

"PLOT1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PLOT1"]

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```

"PLOT1" -> "KONVERT"

"PPCURVE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PPCURVE"]
"PPCURVE" -> "KOERCE"

"REAL" [color="#4488FF",href="bookvol10.2.pdf#nameddest=REAL"]
"REAL" -> "KONVERT"

"REF" [color="#88FF44",href="bookvol10.3.pdf#nameddest=REF",
      shape=ellipse]
"REF" -> "TYPE"
/*"REF" -> "SETCAT"*/
"REF" -> "BASTYPE/KOERCE"
/*"REF" -> "KOERCE"*/

"REPDB" [color="#FF4488",href="bookvol10.4.pdf#nameddest=REPDB"]
/*"REPDB" -> "SETCAT"*/
"REPDB" -> "BASTYPE/KOERCE"
/*"REPDB" -> {"KOERCE"; "PI"; "NNI"; "INT"}*/

"REPSQ" [color="#FF4488",href="bookvol10.4.pdf#nameddest=REPSQ"]
/*"REPSQ" -> "SETCAT"*/
"REPSQ" -> "BASTYPE/KOERCE"
/*"REPSQ" -> {"KOERCE"; "PI"; "NNI"; "INT"}*/

"RESLATC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RESLATC"]
"RESLATC" -> "TYPE"

"RETRACT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RETRACT"]
"RETRACT" -> "TYPE"

"RETRACT-" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RETRACT"]
"RETRACT-" -> "TYPE"

"RMODULE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RMODULE"]
/*"RMODULE" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
"RMODULE" -> "BASTYPE/KOERCE"
/*"RMODULE" -> "KOERCE"*/

"SEGBIND2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SEGBIND2"]
"SEGBIND2" -> "TYPE"

"SEGCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SEGCAT"]
"SEGCAT" -> "TYPE"

"SETCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SETCAT",
         shape=ellipse]
"SETCAT" -> "BASTYPE/KOERCE"
/*"SETCAT" -> "KOERCE"*/
/*"SETCAT" -> "SINT"*/

```



```

"SETCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SETCAT",
          shape=ellipse]
"SETCAT-" -> "BASTYPE/KOERCE"
/*"SETCAT-" -> {"KOERCE"; "SINT"}*/

"SETCATD" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SETCATD"]
/*"SETCATD" -> "SETCAT"*/
"SETCATD" -> "BASTYPE/KOERCE"

"SEXCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SEXCAT"]
/*"SEXCAT" -> "SETCAT"*/
"SEXCAT" -> "BASTYPE/KOERCE"
/*"SEXCAT" -> "KOERCE"*/

/* We combine LMODULE and SGROUP to minimize edges */
"LMODULE/SGROUP" [color="blue",href="bookvol10.2.pdf#nameddest=LMODULE"]
"LMODULE/SGROUP" -> "BASTYPE/KOERCE"
/*"LMODULE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LMODULE"]*/
/*"LMODULE" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"LMODULE" -> {"BASTYPE/KOERCE"; "KOERCE"}*/

"SGROUP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SGROUP"]
/*"SGROUP" -> "SETCAT"*/
"SGROUP" -> "BASTYPE/KOERCE"
/*"SGROUP" -> "KOERCE"*/

"SGROUP-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SGROUP"]
/*"SGROUP" -> "SETCAT"*/
"SGROUP-" -> "BASTYPE/KOERCE"
/*"SGROUP-" -> "KOERCE"*/

"SPACEC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SPACEC"]
/*"SPACEC" -> "SETCAT"*/
"SPACEC" -> "BASTYPE/KOERCE"
/*"SPACEC" -> "KOERCE"*/

"SPLNODE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SPLNODE"]
/*"SPLNODE" -> "SETCAT"*/
"SPLNODE" -> "BASTYPE/KOERCE"
/*"SPLNODE" -> {"KOERCE"; "AGG"}*/
"SPLNODE" -> "TYPE"
/*"SPLNODE" -> "BOOLEAN"*/

"STEP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=STEP"]
/*"STEP" -> "SETCAT"*/
"STEP" -> "BASTYPE/KOERCE"
/*"STEP" -> "KOERCE"*/

"STNSR" [color="#FF4488",href="bookvol10.4.pdf#nameddest=STNSR"]

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"STNSR" -> "TYPE"

"STREAM1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=STREAM1"]
"STREAM1" -> "TYPE"

"STREAM2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=STREAM2"]
"STREAM2" -> "TYPE"

"STREAM3" [color="#FF4488",href="bookvol10.4.pdf#nameddest=STREAM3"]
"STREAM3" -> "TYPE"

"SUCH" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SUCH"]
/*"SUCH" -> "SETCAT"*/
"SUCH" -> "BASTYPE/KOERCE"
/*"SUCH" -> "KOERCE"*/

"TEX1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=TEX1"]
/*"TEX1" -> "SETCAT"*/
"TEX1" -> "BASTYPE/KOERCE"
/*"TEX1" -> "KOERCE"*/

"UDVO" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UDVO"]
/*"UDVO" -> {"INT"; "LIST"; "ILIST"; "ORDSET"; "SETCAT"}*/
"UDVO" -> "BASTYPE/KOERCE"
/*"UDVO" -> "KOERCE"*/

"YSTREAM" [color="#FF4488",href="bookvol10.4.pdf#nameddest=YSTREAM"]
"YSTREAM" -> "TYPE"
/*"YSTREAM" -> {"INT"; "SINT"; "NNI"}*/

```

---

## Layer 2

Depends on: AGG ELTAGG FINITE FORTCAT IDPC IEVALAB LMODULE MONAD  
ORDSET PATMAB RETRACT RMODULE SGROUP SETCATD

Used by next layer: BMODULE CACHSET ELEMFUN EVALAB GROUP IXAGG MON-  
ADWU NARNG OASGP PDRING

— **layer2** —

```

LAYER2=\
  ${OUT}/AFSPCAT.o \
  ${OUT}/API.o      ${OUT}/ASP29.o    ${OUT}/ATRIG.o    ${OUT}/ATRIG-.o \
  ${OUT}/BEZIER.o   ${OUT}/BLHN.o     \
  ${OUT}/BLQT.o     ${OUT}/BMODULE.o  ${OUT}/CACHSET.o \
  ${OUT}/CHARNZ.o   ${OUT}/CHARZ.o    ${OUT}/DVARCAT.o  ${OUT}/DVARCAT-.o \

```

```

${OUT}/ELEMFUN.o  ${OUT}/ELEMFUN-.o  ${OUT}/ESTOOLS2.o  ${OUT}/EVALAB.o  \
${OUT}/EVALAB-.o  ${OUT}/FAMONC.o  ${OUT}/FCOMP.o  ${OUT}/FEVALAB.o  \
${OUT}/FEVALAB-.o  ${OUT}/FMC.o  ${OUT}/FMFUN.o  ${OUT}/FORTFN.o  \
${OUT}/FPATMAB.o  ${OUT}/FVC.o  ${OUT}/FVFUN.o  ${OUT}/GROUP.o  \
${OUT}/GROUP-.o  ${OUT}/IDPAG.o  ${OUT}/IDPAM.o  ${OUT}/IDPO.o  \
${OUT}/INCRMAPS.o  ${OUT}/INTRET.o  ${OUT}/IXAGG.o  ${OUT}/IXAGG-.o  \
${OUT}/KERNEL2.o  ${OUT}/LALG.o  ${OUT}/LALG-.o  ${OUT}/LINEXP.o  \
${OUT}/MODMONOM.o  ${OUT}/MONADWU.o  ${OUT}/MONADWU-.o  ${OUT}/MRF2.o  \
${OUT}/NARNG.o  ${OUT}/NARNG-.o  ${OUT}/NSUP2.o  ${OUT}/OASGP.o  \
${OUT}/ODVAR.o  ${OUT}/OPQUERY.o  ${OUT}/ORDFIN.o  ${OUT}/ORDMON.o  \
${OUT}/PATMATCH.o  ${OUT}/PERMCAT.o  ${OUT}/PDRING.o  ${OUT}/PDRING-.o  \
${OUT}/PLACESC.o  ${OUT}/PRSPCAT.o  \
${OUT}/SDVAR.o  ${OUT}/SEGXCAT.o  ${OUT}/SUP2.o  ${OUT}/TRIGCAT.o  \
${OUT}/TRIGCAT-.o  ${OUT}/ULS2.o  ${OUT}/UP2.o  \
layer2done

```

— layerpic —

```

/* layer 2 */
/* AGG ELTAGG FINITE FORTCAT IDPC IEVALAB LMODULE MONAD ORDSET */
/* PATMAB RETRACT RMODULE SEG CAT SGROUP SETCATD */

"AFSPCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=AFSPCAT",
           shape=ellipse]
"AFSPCAT" -> "SETCATD"
/*"AFSPCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"ABELGRP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ABELGRP",
           shape=ellipse]
/*"ABELGRP" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"ABELGRP" -> {"KOERCE"; "RING"; "RNG"; "SGROUP"; "MONOID"}*/
"ABELGRP" -> "LMODULE/SGROUP"
/*"ABELGRP" -> "INT"*/

"ABELGRP-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ABELGRP",
            shape=ellipse]
/*"ABELGRP-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"ABELGRP-" -> {"KOERCE"; "RING"; "RNG"; "SGROUP"; "MONOID"}*/
"ABELGRP-" -> "LMODULE/SGROUP"
/*"ABELGRP-" -> "INT"*/

"ABELMON" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ABELMON",
           shape=ellipse]
/*"ABELMON" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "RING"; "RNG"}*/
/*"ABELMON" -> {"ABELGRP"; "CABMON"; "SGROUP"; "MONOID"}*/
"ABELMON" -> "LMODULE/SGROUP"

```

```

/*"ABELMON" -> {"NNI"; "INT"}*/

"ABELMON-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ABELMON",
            shape=ellipse]
/*"ABELMON-" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "RING"; "RNG"}*/
/*"ABELMON-" -> {"ABELGRP"; "CABMON"; "SGROUP"; "MONOID"}*/
"ABELMON-" -> "LMODULE/SGROUP"
/*"ABELMON-" -> {"NNI"; "INT"}*/

"ABELSG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ABELSG",
          shape=ellipse]
/*"ABELSG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "RING"; "RNG"; "ABELGRP"}*/
/*"ABELSG" -> {"CABMON"; "ABELMON"; "SGROUP"; "MONOID"}*/
"ABELSG" -> "LMODULE/SGROUP"

"ABELSG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ABELSG",
           shape=ellipse]
/*"ABELSG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "RING"; "RNG"; "ABELGRP"}*/
/*"ABELSG-" -> {"CABMON"; "ABELMON"; "SGROUP"; "MONOID"}*/
"ABELSG-" -> "LMODULE/SGROUP"

"API" [color="#FF4488",href="bookvol10.4.pdf#nameddest=API"]
/*"API" -> {"INT"; "LIST"; "ILIST"}*/
"API" -> "ORDSET"
/*"API" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"ATRIG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ATRIG"]
/*"ATRIG" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ATRIG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"ATRIG" -> "LMODULE/SGROUP"

"ATRIG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ATRIG"]
/*"ATRIG-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ATRIG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"ATRIG-" -> "LMODULE/SGROUP"

"BEZIER" [color="#FF4488",href="bookvol10.4.pdf#nameddest=BEZIER"]
/*"BEZIER" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"BEZIER" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"} */
"BEZIER" -> "LMODULE/SGROUP"

"BLQT" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BLQT"]
"BLQT" -> "BLMETCT"
/*"BLQT" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"BLQT" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BLQT"]
"BLQT" -> "BLMETCT"
/*"BLQT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"BLQT" -> {"STAGG-"; "PI"; "NNI"}*/

```

```

"BMODULE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BMODULE"]
/*"BMODULE" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"BMODULE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"BMODULE" -> "LMODULE/SGROUP"
"BMODULE" -> "RMODULE"

"CACHSET" [color="#4488FF",href="bookvol10.2.pdf#nameddest=CACHSET"]
"CACHSET" -> "ORDSET"
/*"CACHSET" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"CHARNZ" [color="#4488FF",href="bookvol10.2.pdf#nameddest=CHARNZ"]
/*"CHARNZ" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"CHARNZ" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"CHARNZ" -> "LMODULE/SGROUP"

"CHARZ" [color="#4488FF",href="bookvol10.2.pdf#nameddest=CHARZ"]
/*"CHARZ" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"CHARZ" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"CHARZ" -> "LMODULE/SGROUP"

"DIFRING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DIFRING",
           shape=ellipse]
/*"DIFRING" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"DIFRING" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"DIFRING" -> "LMODULE/SGROUP"
/*"DIFRING" -> {"SINT"; "NNI"; "INT"}*/

"DIFRING-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=DIFRING",
            shape=ellipse]
/*"DIFRING-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"DIFRING-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"DIFRING-" -> "LMODULE/SGROUP"
/*"DIFRING-" -> {"SINT"; "NNI"; "INT"}*/

"DVARCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DVARCAT"]
"DVARCAT" -> "ORDSET"
/*"DVARCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"DVARCAT" -> "RETRACT"
/*"DVARCAT" -> {"NNI"; "INT"; "BOOLEAN"}*/

"DVARCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=DVARCAT"]
"DVARCAT-" -> "ORDSET"
/*"DVARCAT-" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"DVARCAT-" -> "RETRACT"
/*"DVARCAT-" -> {"NNI"; "INT"; "BOOLEAN"}*/

"ELEMFUN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ELEMFUN"]
/*"ELEMFUN" -> "MONOID"*/
"ELEMFUN" -> "SGROUP"
/*"ELEMFUN" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

```

```

"ELEMFUN-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ELEMFUN"]
/*"ELEMFUN-" -> "MONOID"*/
"ELEMFUN-" -> "SGROUP"
/*"ELEMFUN-" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"ESTOOLS2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ESTOOLS2"]
/*"ESTOOLS2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ESTOOLS2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"ESTOOLS2" -> "LMODULE/SGROUP"

"EVALAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=EVALAB"]
"EVALAB" -> "IEVALAB"
/*"EVALAB" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"EVALAB-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=EVALAB"]
"EVALAB-" -> "IEVALAB"
/*"EVALAB-" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"FAMONC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FAMONC"]
/*"FAMONC" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"FAMONC" -> "RETRACT"

"FCOMP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FCOMP"]
"FCOMP" -> "ORDSET"
/*"FCOMP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "BOOLEAN"}*/

"FEVALAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FEVALAB"]
/*"FEVALAB" -> {"ELTAB"; "EVALAB"}*/
"FEVALAB" -> "IEVALAB"
/*"FEVALAB" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"FEVALAB-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FEVALAB"]
/*"FEVALAB-" -> {"ELTAB"; "EVALAB"}*/
"FEVALAB-" -> "IEVALAB"
/*"FEVALAB-" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"FMC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FMC"]
"FMC" -> "FORTCAT"
/*"FMC" -> {"TYPE"; "KOERCE"}*/

"FMFUN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FMFUN"]
"FMFUN" -> "FORTCAT"
/*"FMFUN" -> {"TYPE"; "KOERCE"}*/

"FORTFN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FORTFN"]
"FORTFN" -> "FORTCAT"
/*"FORTFN" -> {"TYPE"; "KOERCE"}*/

"FPATMAB" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FPATMAB"]

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/*"FPATMAB" -> "TYPE"*/
"FPATMAB" -> "PATMAB"
/*"FPATMAB" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"FVC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FVC"]
"FVC" -> "FORTCAT"
/*"FVC" -> {"TYPE"; "KOERCE"}*/

"FVFUN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FVFUN"]
"FVFUN" -> "FORTCAT"
/*"FVFUN" -> {"TYPE"; "KOERCE"}*/

"GROUP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=GROUP"]
/*"GROUP" -> "MONOID"*/
"GROUP" -> "SGROUP"
/*"GROUP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "INT"}*/

"GROUP-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=GROUP"]
/*"GROUP-" -> "MONOID"*/
"GROUP-" -> "SGROUP"
/*"GROUP-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "INT"}*/

"IDPAG" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IDPAG"]
/*"IDPAG" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"IDPAG" -> {"BASTYPE"; "KOERCE"}*/
"IDPAG" -> "IDPC"
"IDPAG" -> "ORDSET"
/*"IDPAG" -> {"INT"; "BOOLEAN"; "LIST"; "ILIST"}*/

"IDPAM" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IDPAM"]
/*"IDPAM" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"IDPAM" -> "IDPC"
"IDPAM" -> "ORDSET"
/*"IDPAM" -> {"INT"; "LIST"; "ILIST"; "BOOLEAN"; "NNI"}*/

"IDPO" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IDPO"]
"IDPO" -> "IDPC"
/*"IDPO" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"IDPO" -> "ORDSET"
/*"IDPO" -> {"INT"; "LIST"; "BOOLEAN"; "ILIST"}*/

"INCRMAPS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=INCRMAPS"]
/*"INCRMAPS" -> "MONOID"*/
"INCRMAPS" -> "SGROUP"
/*"INCRMAPS" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ABELSG"}*/

"INTRET" [color="#FF4488",href="bookvol10.4.pdf#nameddest=INTRET"]
"INTRET" -> "RETRACT"

"IXAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=IXAGG"]

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/*"IXAGG" -> "HOAGG"*/
"IXAGG" -> "AGG"
/*"IXAGG" -> {"TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"}*/
"IXAGG" -> "ELTAGG"
/*"IXAGG" -> "ELTAB"*/
"IXAGG" -> "ORDSET"

"IXAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IXAGG"]
/*"IXAGG-" -> "HOAGG"*/
"IXAGG-" -> "AGG"
/*"IXAGG-" -> {"TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"}*/
"IXAGG-" -> "ELTAGG"
/*"IXAGG-" -> "ELTAB"*/
"IXAGG-" -> "ORDSET"

"KERNEL2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=KERNEL2"]
"KERNEL2" -> "ORDSET"
/*"KERNEL2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "INT"; "LIST"; "NNI"}*/

"LALG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LALG"]
/*"LALG" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LALG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"LALG" -> "LMODULE/SGROUP"

"LALG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=LALG"]
/*"LALG-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LALG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"LALG-" -> "LMODULE/SGROUP"

"LINEXP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LINEXP"]
/*"LINEXP" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LINEXP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"LINEXP" -> "LMODULE/SGROUP"

"MODMONOM" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MODMONOM"]
"MODMONOM" -> "ORDSET"
/*"MODMONOM" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"MONADWU" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MONADWU"]
"MONADWU" -> "MONAD"
/*"MONADWU" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "NNI"; "INT"; "SINT"}*/

"MONADWU-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MONADWU"]
"MONADWU-" -> "MONAD"
/*"MONADWU-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "NNI"; "INT"; "SINT"}*/

"MONOID" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MONOID",
          shape=ellipse]
"MONOID" -> "SGROUP"
/*"MONOID" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "NNI"; "INT"}*/

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"MONOID-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MONOID",
          shape=ellipse]
"MONOID-" -> "SGROUP"
/*"MONOID-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "NNI"; "INT"}*/

"MRF2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MRF2"]
/*"MRF2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"MRF2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"MRF2" -> "LMODULE/SGROUP"

"NARNG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=NARNG"]
/*"NARNG" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NARNG" -> {"BASTYPE"; "KOERCE"}*/
"NARNG" -> "MONAD"

"NARNG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=NARNG"]
/*"NARNG-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NARNG-" -> {"BASTYPE"; "KOERCE"}*/
"NARNG-" -> "MONAD"

"NSUP2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=NSUP2"]
/*"NSUP2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"NSUP2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"NSUP2" -> "LMODULE/SGROUP"

"OASGP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OASGP"]
"OASGP" -> "ORDSET"
/*"OASGP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"}*/

"ODVAR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ODVAR"]
/*"ODVAR" -> "DVARCAT"*/
"ODVAR" -> "ORDSET"
/*"ODVAR" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"ODVAR" -> "RETRACT"

"OPQUERY" [color="#FF4488",href="bookvol10.4.pdf#nameddest=OPQUERY"]
"OPQUERY" -> "ORDSET"
/*"OPQUERY" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"ORDFIN" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ORDFIN"]
"ORDFIN" -> "ORDSET"
/*"ORDFIN" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"ORDFIN" -> "FINITE"

"ORDMON" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ORDMON"]
"ORDMON" -> "ORDSET"
/*"ORDMON" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "MONOID"}*/
"ORDMON" -> "SGROUP"

```

```

"PATMATCH" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PATMATCH"]
/*"PATMATCH" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"PATMATCH" -> "PATMAB"
/*"PATMATCH" -> {"KONVERT"; "BOOLEAN"}*/
"PATMATCH" -> "RETRACT"
/*"PATMATCH" -> {"INT"; "LIST"; "ILIST"; "RING"; "RNG"; "ABELGRP"}*/
/*"PATMATCH" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
"PATMATCH" -> "LMODULE/SGROUP"

"PDRING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PDRING"]
/*"PDRING" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PDRING" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"PDRING" -> "LMODULE/SGROUP"
/*"PDRING" -> {"SINT"; "NNI"; "INT"}*/

"PDRING-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PDRING"]
/*"PDRING-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PDRING-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"PDRING-" -> "LMODULE/SGROUP"
/*"PDRING-" -> {"SINT"; "NNI"; "INT"}*/

"PERMCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PERMCAT"]
/*"PERMCAT" -> {"GROUP"; "MONOID"}*/
"PERMCAT" -> "SGROUP"
/*"PERMCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"PERMCAT" -> "ORDSET"
"PERMCAT" -> "FINITE"

"PI" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PI",
      shape=ellipse]
/*"PI" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"PI" -> "ORDSET"
/*"PI" -> "MONOID"*/
"PI" -> "SGROUP"
/*"PI" -> {"NNI"; "INT"}*/

"RING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RING",
        shape=ellipse]
/*"RING" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"RING" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"RING" -> "LMODULE/SGROUP"

"RING-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=RING",
         shape=ellipse]
/*"RING-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"RING-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"RING-" -> "LMODULE/SGROUP"

"RNG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RNG",
       shape=ellipse]

```

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/*"RNG" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"RNG" -> "KOERCE"*/
"RNG" -> "SGROUP"

"PLACESC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PLACESC",
           shape=ellipse]
"PLACESC" -> "SETCATD"
/*"PLACESC" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"PRSPCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PRSPCAT",
           shape=ellipse]
"PRSPCAT" -> "SETCATD"
/*"PRSPCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/

"SDVAR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SDVAR"]
/*"SDVAR" -> "DVARCAT"*/
"SDVAR" -> "ORDSET"
/*"SDVAR" -> {"SETCAT"; "BASTYPE"; "KOERCE"}*/
"SDVAR" -> "RETRACT"
/*"SDVAR" -> {"NNI"; "INT"}*/

"SEGXCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SEGXCAT"]
"SEGXCAT" -> "SEGCAT"
/*"SEGXCAT" -> "TYPE"*/

"SUP2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SUP2"]
/*"SUP2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"SUP2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"SUP2" -> "LMODULE/SGROUP"

"TRIGCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=TRIGCAT"]
/*"TRIGCAT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"TRIGCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"TRIGCAT" -> "LMODULE/SGROUP"

"TRIGCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=TRIGCAT"]
/*"TRIGCAT-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"TRIGCAT-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"TRIGCAT-" -> "LMODULE/SGROUP"

"ULS2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ULS2"]
/*"ULS2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ULS2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"ULS2" -> "LMODULE/SGROUP"

"UP2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UP2"]
/*"UP2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UP2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
"UP2" -> "LMODULE/SGROUP"

```

---

### Layer 3

Depends on: BMODULE CACHSET ELEMFUN EVALAB GROUP IXAGG MONADWU  
NARNG OASGP PDRING

Used by next layer: BGAGG BRAGG ELAGG- GRMOD MODULE OAMON

— layer3 —

```
LAYER3=\
  ${OUT}/AUTOMOR.o  ${OUT}/BGAGG.o  ${OUT}/BGAGG-.o  ${OUT}/BRAGG.o  \
  ${OUT}/BRAGG-.o  ${OUT}/CARTEN2.o  ${OUT}/CHARPOL.o  ${OUT}/COMPLEX2.o \
  ${OUT}/DIFEXT.o  ${OUT}/DIFEXT-.o  ${OUT}/DLAGG.o  ${OUT}/DSTRCAT.o \
  ${OUT}/ELAGG.o  \
  ${OUT}/ELAGG-.o  ${OUT}/ES1.o  ${OUT}/ES2.o  ${OUT}/GRMOD.o  \
  ${OUT}/GRMOD-.o  ${OUT}/HYPCAT.o  ${OUT}/HYPCAT-.o  ${OUT}/LORER.o  \
  ${OUT}/MKCHSET.o  \
  ${OUT}/MODRING.o  ${OUT}/MODULE.o  ${OUT}/MODULE-.o  ${OUT}/NASRING.o \
  ${OUT}/NASRING-.o  ${OUT}/OAMON.o  ${OUT}/SORTPAK.o  ${OUT}/ZMOD.o \
  layer3done
```

---

— layerpic —

```
/* layer 3 */
/* depends on: BMODULE CACHSET ELEMFUN EVALAB GROUP IXAGG MONADWU NARNG */
/* OASGP PDRING */

"AUTOMOR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=AUTOMOR"]
"AUTOMOR" -> "GROUP"
/*"AUTOMOR" -> {"MONOID"; "SGROUP"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"AUTOMOR" -> {"ELTAB"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"AUTOMOR" -> {"ABELSG"; "LMODULE"; "INT"; "SINT"; "NNI"}*/

"BGAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BGAGG"]
/*"BGAGG" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"BGAGG" -> "EVALAB"
/*"BGAGG" -> "IEVALAB"*/

"BGAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BGAGG"]
/*"BGAGG-" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"BGAGG-" -> "EVALAB"
/*"BGAGG-" -> "IEVALAB"*/
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"BRAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BRAGG"]
/*"BRAGG" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"BRAGG" -> "KOERCE"*/
"BRAGG" -> "EVALAB"
/*"BRAGG" -> {"IEVALAB"; "BOOLEAN"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"BRAGG" -> {"STAGG-"; "SETAGG"; "CLAGG"; "KONVERT"; "NNI"}*/

"BRAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BRAGG"]
/*"BRAGG-" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"BRAGG-" -> "KOERCE"*/
"BRAGG-" -> "EVALAB"
/*"BRAGG-" -> {"IEVALAB"; "BOOLEAN"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"BRAGG-" -> {"STAGG-"; "SETAGG"; "CLAGG"; "KONVERT"; "NNI"}*/

"CARTEN2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=CARTEN2"]
/*"CARTEN2" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"CARTEN2" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"CARTEN2" -> {"MONOID"; "LMODULE"}*/
"CARTEN2" -> "BMODULE"
/*"CARTEN2" -> "RMODULE"*/

"CHARPOL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=CHARPOL"]
/*"CHARPOL" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"CHARPOL" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"CHARPOL" -> {"MONOID"; "LMODULE"}*/
"CHARPOL" -> "BMODULE"
/*"CHARPOL" -> {"RMODULE"; "NNI"; "INT"; "SINT"; "PI"}*/

"COMPLEX2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=COMPLEX2"]
/*"COMPLEX2" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"COMPLEX2" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"COMPLEX2" -> {"MONOID"; "LMODULE"}*/
"COMPLEX2" -> "BMODULE"
/*"COMPLEX2" -> "RMODULE"*/

"COMRING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=COMRING",
           shape=ellipse]
/*"COMRING" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"COMRING" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"COMRING" -> {"MONOID"; "LMODULE"}*/
"COMRING" -> "BMODULE"
/*"COMRING" -> "RMODULE"*/

"DIFEXT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DIFEXT"]
/*"DIFEXT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"DIFEXT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"DIFEXT" -> "DIFRING"*/
"DIFEXT" -> "PDRING"
/*"DIFEXT" -> {"SINT"; "NNI"; "INT"}*/

```

```

"DIFEXT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=DIFEXT"]
/*"DIFEXT-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"DIFEXT-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"DIFEXT-" -> {"LMODULE"; "DIFRING"}*/
"DIFEXT-" -> "PDRING"
/*"DIFEXT-" -> {"SINT"; "NNI"; "INT"}*/

"DLAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DLAGG"]
/*"DLAGG" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"DLAGG" -> "EVALAB"
/*"DLAGG" -> "IEVALAB"*/

"DSTRCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DSTRCAT"]
/*"DSTRCAT" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
"DSTRCAT" -> "EVALAB"
/*"DSTRCAT" -> {"KOERCE"; "IEVALAB"}*/

"ELAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ELAGG"]
/*"ELAGG" -> "LNAGG"*/
"ELAGG" -> "IXAGG"
/*"ELAGG" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"ELAGG" -> "EVALAB"
/*"ELAGG" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "NNI"}*/
/*"ELAGG" -> {"INT"; "ORDSET"}*/

"ELAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ELAGG"]
/*"ELAGG-" -> "LNAGG"*/
"ELAGG-" -> "IXAGG"
/*"ELAGG-" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"ELAGG-" -> "EVALAB"
/*"ELAGG-" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "NNI"}*/
/*"ELAGG-" -> {"INT"; "ORDSET"}*/

/* Note that ENTIRER has a circular self reference */
"ENTIRER" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ENTIRER",
           shape=ellipse]
/*"ENTIRER" -> {"ENTIRER"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"ENTIRER" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"ENTIRER" -> {"MONOID"; "LMODULE"}*/
"ENTIRER" -> "BMODULE"
/*"ENTIRER" -> "RMODULE"*/

"ES1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ES1"]
/*"ES1" -> {"ES"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"}*/
/*"ES1" -> "IEVALAB"*/
"ES1" -> "EVALAB"
/*"ES1" -> "TYPE"*/

"ES2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ES2"]
/*"ES2" -> {"ES"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"}*/

```

```

/*"ES2" -> "IEVALAB"*/
"ES2" -> "EVALAB"

"GRMOD" [color="#4488FF",href="bookvol10.2.pdf#nameddest=GRMOD"]
/*"GRMOD" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "COMRING"; "RING"; "RNG"}*/
/*"GRMOD" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"GRMOD" -> {"MONOID"; "LMODULE"}*/
"GRMOD" -> "BMODULE"
/*"GRMOD" -> "RMODULE"*/

"GRMOD-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=GRMOD"]
/*"GRMOD-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "COMRING"; "RING"; "RNG"}*/
/*"GRMOD-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"GRMOD-" -> {"MONOID"; "LMODULE"}*/
"GRMOD-" -> "BMODULE"
/*"GRMOD-" -> "RMODULE"*/

"HYPCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=HYPCAT"]
/*"HYPCAT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"HYPCAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"HYPCAT" -> "LMODULE"*/
"HYPCAT" -> "ELEMFUN"

"HYPCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=HYPCAT"]
/*"HYPCAT-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"HYPCAT-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"HYPCAT-" -> "LMODULE"*/
"HYPCAT-" -> "ELEMFUN"

"LORER" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LORER"]
/*"LORER" -> {"ENTIRER"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"LORER" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"LORER" -> {"MONOID"; "LMODULE"; "RMODULE"}*/
"LORER" -> "BMODULE"

"MKCHSET" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MKCHSET"]
"MKCHSET" -> "CACHSET"
/*"MKCHSET" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "NNI"; "INT"}*/

"MODRING" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MODRING"]
/*"MODRING" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"MODRING" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"MODRING" -> {"LMODULE"; "COMRING"}*/
"MODRING" -> "BMODULE"
/*"MODRING" -> {"RMODULE"; "BOOLEAN"}*/

"MODULE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MODULE"]
/*"MODULE" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"MODULE" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"MODULE" -> {"MONOID"; "LMODULE"}*/

```

```

"MODULE" -> "BMODULE"
/*"MODULE" -> "RMODULE"*/

"MODULE-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MODULE"]
/*"MODULE-" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"MODULE-" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"MODULE-" -> {"MONOID"; "LMODULE"}*/
"MODULE-" -> "BMODULE"
/*"MODULE-" -> "RMODULE"*/

"NASRING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=NASRING"]
"NASRING" -> "NARNG"
/*"NASRING" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NASRING" -> {"BASTYPE"; "KOERCE"; "MONAD"}*/
"NASRING" -> "MONADWU"

"NASRING-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=NASRING"]
"NASRING-" -> "NARNG"
/*"NASRING-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NASRING-" -> {"BASTYPE"; "KOERCE"; "MONAD"}*/
"NASRING-" -> "MONADWU"

"OAMON" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OAMON"]
"OAMON" -> "OASGP"
/*"OAMON" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"}*/

"SETAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SETAGG",
          shape=ellipse]
/*"SETAGG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "CLAGG"; "HOAGG"; "AGG"}*/
/*"SETAGG" -> "TYPE"*/
"SETAGG" -> "EVALAB"
/*"SETAGG" -> {"IEVALAB"; "KONVERT"}*/

"SETAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SETAGG",
          shape=ellipse]
/*"SETAGG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "CLAGG"; "HOAGG"; "AGG"}*/
/*"SETAGG-" -> "TYPE"*/
"SETAGG-" -> "EVALAB"
/*"SETAGG-" -> {"IEVALAB"; "KONVERT"}*/

"ORTPAK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ORTPAK"]
/*"ORTPAK" -> "TYPE"*/
"ORTPAK" -> "IXAGG"
/*"ORTPAK" -> {"HOAGG"; "AGG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"ORTPAK" -> "EVALAB"
/*"ORTPAK" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "SINT"; "NNI"; "INT"}*/
/*"ORTPAK" -> {"BOOLEAN"; "PI"; "ORDSET"; "URAGG"; "RCAGG"}*/

"ZMOD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ZMOD"]
/*"ZMOD" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/

```



```

/*"ZMOD" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"ZMOD" -> "LMODULE"*/
"ZMOD" -> "BMODULE"
/*"ZMOD" -> {"RMODULE"; "FINITE"; "KONVERT"; "STEP"; "SINT"; "INT"}*/
/*"ZMOD" -> {"PI"; "NNI"; "INS-"; "EUCDOM-"}*/

```

---

## Layer 4

Depends on: BGAGG BRAGG ELAGG- GRMOD MODULE OAMON

Used by next layer: ALGEBRA ALGEBRA- BTCAT OCAMON QUAGG SKAGG

— layer4 —

```

LAYER4=\
  ${OUT}/ALGEBRA.o ${OUT}/ALGEBRA-.o ${OUT}/BTCAT.o ${OUT}/BTCAT-.o \
  ${OUT}/FMCAT.o ${OUT}/IDPOAM.o ${OUT}/IFAMON.o ${OUT}/GRALG.o \
  ${OUT}/GRALG-.o ${OUT}/NAALG.o ${OUT}/NAALG-.o ${OUT}/OCAMON.o \
  ${OUT}/PRQAGG.o ${OUT}/QUAGG.o ${OUT}/SKAGG.o \
  layer4done

```

---

— layerpic —

```

/* layer 4 */
/* depends on: BGAGG BRAGG GRMOD MODULE OAMON */

"ALGEBRA" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ALGEBRA"]
/*"ALGEBRA" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ALGEBRA" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"ALGEBRA" -> "LMODULE"*/
"ALGEBRA" -> "MODULE"
/*"ALGEBRA" -> {"BMODULE"; "RMODULE"; "COMRING"}*/

"ALGEBRA-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ALGEBRA"]
/*"ALGEBRA-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ALGEBRA-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"ALGEBRA-" -> "LMODULE"*/
"ALGEBRA-" -> "MODULE"
/*"ALGEBRA-" -> {"BMODULE"; "RMODULE"; "COMRING"}*/

"BTCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=BTCAT"]
"BTCAT" -> "BRAGG"
/*"BTCAT" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/

```

```

/*"BTCAT" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "NNI"; "INT"}*/

"BTCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BTCAT"]
"BTCAT-" -> "BRAGG"
/*"BTCAT-" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"BTCAT-" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "NNI"; "INT"}*/

"FMCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FMCAT"]
/*"FMCAT" -> {"BMODULE"; "LMODULE"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"FMCAT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "RMODULE"; "RETRACT"}*/
"FMCAT" -> "MODULE"

"IDPOAM" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IDPOAM"]
"IDPOAM" -> "OAMON"
/*"IDPOAM" -> {"OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"}*/
/*"IDPOAM" -> {"ABELSG"; "IDPC"; "INT"; "LIST"; "ILIST"; "BOOLEAN"}*/

"IFAMON" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IFAMON"]
/*"IFAMON" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"IFAMON" -> {"FAMONC"; "RETRACT"; "INT"; "LIST"; "ILIST"}*/
"IFAMON" -> "OAMON"
/*"IFAMON" -> {"OASGP"; "ORDSET"}*/

"GRALG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=GRALG"]
"GRALG" -> "GRMOD"
/*"GRALG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"; "COMRING"; "RING"}*/
/*"GRALG" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"GRALG" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/

"GRALG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=GRALG"]
"GRALG-" -> "GRMOD"
/*"GRALG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"; "COMRING"; "RING"}*/
/*"GRALG-" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"GRALG-" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/

"NAALG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=NAALG"]
/*"NAALG" -> {"NARNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NAALG" -> {"BASTYPE"; "KOERCE"; "MONAD"}*/
"NAALG" -> "MODULE"
/*"NAALG" -> {"BMODULE"; "LMODULE"; "RMODULE"; "COMRING"; "RING"; "RNG"}*/
/*"NAALG" -> {"SGROUP"; "MONOID"; "PI"; "NNI"; "INT"}*/

"NAALG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=NAALG"]
/*"NAALG-" -> {"NARNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"NAALG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "MONAD"}*/
"NAALG-" -> "MODULE"
/*"NAALG-" -> {"BMODULE"; "LMODULE"; "RMODULE"; "COMRING"; "RING"; "RNG"}*/
/*"NAALG-" -> {"SGROUP"; "MONOID"; "PI"; "NNI"; "INT"}*/

"OCAMON" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OCAMON"]

```

```

"OCAMON" -> "OAMON"
/*"OCAMON" -> {"OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"OCAMON" -> {"ABELMON"; "ABELSG"; "CABMON"}*/

"PRQAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PRQAGG"]
"PRQAGG" -> "BGAGG"
/*"PRQAGG" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"PRQAGG" -> {"EVALAB"; "IEVALAB"}*/

"QUAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=QUAGG"]
"QUAGG" -> "BGAGG"
/*"QUAGG" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"QUAGG" -> {"EVALAB"; "IEVALAB"}*/

"SKAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SKAGG"]
"SKAGG" -> "BGAGG"
/*"SKAGG" -> {"HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SKAGG" -> {"EVALAB"; "IEVALAB"}*/

```

---

## Layer 5

Depends on: ALGEBRA ALGEBRA- BTCAT OCAMON QUAGG SKAGG  
 Used by next layer: MLO OAGROUP OAMONS PID XALG

— layer5 —

```

LAYER5=\
  ${OUT}/BSTREE.o  ${OUT}/BTourn.o  ${OUT}/CARD.o    ${OUT}/DRAWHACK.o \
  ${OUT}/DQAGG.o  ${OUT}/FACTFUNC.o ${OUT}/FMTC.o    ${OUT}/FR2.o      \
  ${OUT}/FRAC2.o  ${OUT}/FRUTIL.o   ${OUT}/ITAYLOR.o  ${OUT}/MLO.o      \
  ${OUT}/NEWTON.o ${OUT}/OAGROUP.o   ${OUT}/OAMONS.o  ${OUT}/OP.o       \
  ${OUT}/PID.o    ${OUT}/RANDSRC.o   ${OUT}/UNISEG2.o ${OUT}/XALG.o    \
layer5done

```

---

— layerpic —

```

/* layer 5 */
/* depends on: ALGEBRA ALGEBRA- BTCAT OCAMON QUAGG SKAGG */

"BSTREE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BSTREE"]

```

```

"BSTREE" -> "BTCAT"
/*"BSTREE" -> {"BRAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"}*/
/*"BSTREE" -> {"BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "ORDSET"}*/
/*"BSTREE" -> {"INT"; "LIST"; "ILIST"}*/

"BTOURN" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BTOURN"]
"BTOURN" -> "BTCAT"
/*"BTOURN" -> {"BRAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"}*/
/*"BTOURN" -> {"BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "ORDSET"}*/
/*"BTOURN" -> {"INT"; "LIST"; "ILIST"}*/

"CARD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=CARD"]
/*"CARD" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"}*/
/*"CARD" -> {"MONOID"; "SGROUP"; "RETRACT"; "BOOLEAN"; "INT"; "NNI"; "INS-"}*/
/*"CARD" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"}*/
"CARD" -> "ALGEBRA-"
/*"CARD" -> {"DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"}*/

"DRAWHACK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DRAWHACK"]
/*"DRAWHACK" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "INTDOM"}*/
/*"DRAWHACK" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"DRAWHACK" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"DRAWHACK" -> "RMODULE"*/
"DRAWHACK" -> "ALGEBRA"
/*"DRAWHACK" -> {"MODULE"; "ENTIRER"; "KONVERT"}*/

"DQAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=DQAGG"]
"DQAGG" -> "SKAGG"
/*"DQAGG" -> {"BGAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"DQAGG" -> {"KOERCE"; "EVALAB"; "IEVALAB"}*/
"DQAGG" -> "QUAGG"

"FACTFUNC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FACTFUNC"]
/*"FACTFUNC" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FACTFUNC" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"FACTFUNC" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"FACTFUNC" -> "ALGEBRA"
/*"FACTFUNC" -> {"MODULE"; "ENTIRER"; "INT"; "LIST"; "ILIST"; "INS-"}*/
/*"FACTFUNC" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "NNI"; "LSAGG-"; "STAGG-"}*/
/*"FACTFUNC" -> "ELAGG-*/

"FMTC" [color="#4488FF",href="bookvol10.2.pdf#nameddest=FMTC"]
/*"FMTC" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FMTC" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"FMTC" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"FMTC" -> "ALGEBRA"
/*"FMTC" -> {"MODULE"; "ENTIRER"; "ORDSET"; "RETRACT"}*/

"FR2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FR2"]
/*"FR2" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/

```

```

/*"FR2" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"FR2" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"FR2" -> "ALGEBRA"
/*"FR2" -> {"MODULE"; "ENTIRER"}*/

"FRAC2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FRAC2"]
/*"FRAC2" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FRAC2" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"FRAC2" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"FRAC2" -> "ALGEBRA"
/*"FRAC2" -> {"MODULE"; "ENTIRER"}*/

"FRUTIL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FRUTIL"]
/*"FRUTIL" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FRUTIL" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"FRUTIL" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"FRUTIL" -> "ALGEBRA"
/*"FRUTIL" -> {"MODULE"; "ENTIRER"; "INT"; "LIST"; "ILIST"; "PI"; "NNI"}*/
/*"FRUTIL" -> {"LSAGG-"; "STAGG-"}*/

"ITAYLOR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ITAYLOR"]
/*"ITAYLOR" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ITAYLOR" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"ITAYLOR" -> {"LMODULE"; "INTDOM"; "COMRING"; "BMODULE"; "RMODULE"}*/
"ITAYLOR" -> "ALGEBRA"
/*"ITAYLOR" -> {"MODULE"; "ENTIRER"; "SINT"; "NNI"; "INT"; "BOOLEAN"}*/

"MLO" [color="#4488FF",href="bookvol10.2.pdf#nameddest=MLO"]
/*"MLO" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"MLO" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"MLO" -> {"BMODULE"; "RMODULE"}*/
"MLO" -> "ALGEBRA"
/*"MLO" -> "MODULE"*/

"NEWTON" [color="#FF4488",href="bookvol10.4.pdf#nameddest=NEWTON"]
/*"NEWTON" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"NEWTON" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"NEWTON" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"NEWTON" -> "ALGEBRA"
/*"NEWTON" -> {"MODULE"; "ENTIRER"; "INT"; "LIST"; "ILIST"; "NNI"}*/
/*"NEWTON" -> {"LSAGG-"; "STAGG-"}*/

/* The PID/OAGROUP node is added to the graph to simplify the layout*/
/* Note that PID and OAGROUP also exist */
"PID/OAGROUP" [color="blue",href="bookvol10.2.pdf#nameddest=OAGROUP"]
"PID/OAGROUP" -> "OCAMON"
"PID/OAGROUP" -> "ALGEBRA"

"OAGROUP" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OAGROUP"]
"OAGROUP" -> "OCAMON"

```

```

/*"OAGROUP" -> {"OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"OAGROUP" -> {"ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"}*/

"PID" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PID"]
/*"PID" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"PID" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"PID" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
"PID" -> "ALGEBRA"
/*"PID" -> {"MODULE"; "ENTIRER"}*/

"OAMONS" [color="#4488FF",href="bookvol10.2.pdf#nameddest=OAMONS"]
"OAMONS" -> "OCAMON"
/*"OAMONS" -> {"OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"OAMONS" -> {"ABELMON"; "ABELSG"; "CABMON"}*/

"OP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=OP"]
/*"OP" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"OP" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "RETRACT"}*/
/*"OP" -> {"ELTAB"; "CHARZ"; "CHARNZ"}*/
"OP" -> "ALGEBRA"
/*"OP" -> {"MODULE"; "BMODULE"; "RMODULE"; "COMRING"; "ORDSET"}*/

"RANDSRC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RANDSRC"]
/*"RANDSRC" -> {"INT"; "PI"; "NNI"; "INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"}*/
/*"RANDSRC" -> "INTDOM-*/
"RANDSRC" -> "ALGEBRA-"
/*"RANDSRC" -> {"DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"}*/
/*"RANDSRC" -> "ABELMON-*/

"UNISEG2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UNISEG2"]
/*"UNISEG2" -> {"TYPE"; "ORDRING"; "OAGROUP"}*/
"UNISEG2" -> "OCAMON"
/*"UNISEG2" -> {"OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"UNISEG2" -> {"ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"; "RING"; "RNG"}*/
/*"UNISEG2" -> {"SGROUP"; "MONOID"; "LMODULE"}*/

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/*"XALG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"XALG" -> {"BMODULE"; "RMODULE"}*/
"XALG" -> "ALGEBRA"
/*"XALG" -> "MODULE"*/

```

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## Layer6

Depends on: MLO OAGROUP OAMONS PID XALG

Used by next layer: AMR FIELD FIELD- FLAGG FLAGG- FRETRCT PADICCT RAD-CAT XFALG

— layer6 —

```
LAYER6=\
  ${OUT}/AMR.o      ${OUT}/AMR-.o      ${OUT}/DEGREED.o  ${OUT}/DIVCAT.o  \
  ${OUT}/DLP.o      \
  ${OUT}/EAB.o      ${OUT}/ESTOOLS1.o  ${OUT}/FAGROUP.o  ${OUT}/FAMONOID.o \
  ${OUT}/FIELD.o    ${OUT}/FIELD-.o    ${OUT}/FLAGG.o    ${OUT}/FLAGG-.o  \
  ${OUT}/FLINEXP.o  ${OUT}/FLINEXP-.o  ${OUT}/FRETRCT.o  ${OUT}/FRETRCT-.o \
  ${OUT}/FSERIES.o  ${OUT}/FT.o        ${OUT}/IDPOAMS.o  ${OUT}/INFINITY.o \
  ${OUT}/LA.o       ${OUT}/MAPPKG4.o   ${OUT}/OMLO.o     ${OUT}/ORTHOPOL.o \
  ${OUT}/PRODUCT.o  ${OUT}/PADICCT.o   ${OUT}/PMPRED.o   ${OUT}/PMASS.o   \
  ${OUT}/PTFUNC2.o  ${OUT}/RADCAT.o    ${OUT}/RADCAT-.o  ${OUT}/RATRET.o  \
  ${OUT}/RADUTIL.o  ${OUT}/UPXS2.o     ${OUT}/XFALG.o    ${OUT}/ZLINDEP.o \
layer6done
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— layerpic —

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/* layer 6 */
/* MLO OAGROUP OAMONS PID XALG */

"AMR" [color="#4488FF",href="bookvol10.2.pdf#nameddest=AMR"]
/*"AMR" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"AMR" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"AMR" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"AMR" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"AMR" -> {"INS"; "UFD"; "GCDDOM"; "EUCDOM"}*/
"AMR" -> "PID/OAGROUP"
/*"AMR" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "DIFRING"}*/
/*"AMR" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"AMR" -> "STEP"*/

"AMR-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=AMR"]
/*"AMR-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"AMR-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"AMR-" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"AMR-" -> {"INS"; "UFD"; "GCDDOM"; "EUCDOM"}*/
"AMR-" -> "PID/OAGROUP"
/*"AMR-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "DIFRING"}*/
/*"AMR-" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
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/*"AMR-" -> "STEP"*/

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/*"DEGRE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"DEGRE" -> {"ILIST"; "INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"}*/
/*"DEGRE" -> {"ALGEBRA-"; "DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"}*/
/*"DEGRE" -> {"ABELGRP-"; "ABELMON-"; "PI"; "NNI"; "INS"; "UFD"; "GCDDOM"}*/
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"DEGRE" -> "PID/OAGROUP"
/*"DEGRE" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"DEGRE" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"DEGRE" -> {"REAL"; "CHARZ"; "STEP"; "SINT"}*/

"DIVCAT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DIVCAT"]
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/*"DIVCAT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"DIVCAT" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "OINTDOM"}*/
/*"DIVCAT" -> {"ORDRING"}*/
"DIVCAT" -> "PID"
"DIVCAT" -> "OAGROUP"
/*"DIVCAT" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"}*/
/*"DIVCAT" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
/*"DIVCAT" -> {"STEP"; "FAMONC"}*/

"DLP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DLP"]
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/*"DLP" -> {"INT"; "NNI"; "BOOLEAN"; "SINT"; "PI"; "ABELSG"}*/
"DLP" -> "OAMONS"
/*"DLP" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "ABELMON"; "CABMON"}*/

"EAB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=EAB"]
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/*"EAB" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"EAB" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"EAB" -> "PID/OAGROUP"
/*"EAB" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"EAB" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"EAB" -> {"REAL"; "CHARZ"; "STEP"; "OM"; "INT"; "LIST"; "ILIST"}*/
/*"EAB" -> {"BOOLEAN"; "NNI"; "SINT"}*/

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/*"ESTOOLS1" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"}*/
/*"ESTOOLS1" -> {"KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"}*/

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/*"ESTOOLS1" -> {"RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"}*/

"FAGROUP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FAGROUP"]
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/*"FAGROUP" -> {"RMODULE"; "FAMONC"; "RETRACT"; "ORDSET"; "INS"; "UFD"}*/
/*"FAGROUP" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "SGROUP"}*/
/*"FAGROUP" -> {"MONOID"; "ALGEBRA"; "ENTIRER"; "EUCDOM"}*/
"FAGROUP" -> "PID/OAGROUP"
/*"FAGROUP" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FAGROUP" -> {"DIFRING"; "KONVERT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"FAGROUP" -> {"CHARZ"; "STEP"; "INT"; "LIST"; "ILIST"; "BOOLEAN"; "OM"}*/

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/*"FAMONOID" -> {"BASTYPE"; "KOERCE"; "RETRACT"}*/
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/*"FAMONOID" -> {"MONOID"; "SGROUP"}*/

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/*"FIELD" -> "EUCDOM"*/
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/*"FIELD" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"FIELD" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
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/*"FIELD" -> {"BOOLEAN"; "INT"; "NNI"}*/

"FIELD-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FIELD"]
/*"FIELD-" -> "EUCDOM"*/
"FIELD-" -> "PID"
/*"FIELD-" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
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/*"FIELD-" -> {"INT"; "NNI"}*/

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/*"FLAGG" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"FLAGG" -> {"KONVERT"; "ORDSET"; "INS"; "UFD"; "GCDDOM"; "INTDOM"}*/
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/*"FLAGG" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"FLAGG" -> "PID/OAGROUP"
/*"FLAGG" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FLAGG" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"FLAGG" -> {"CHARZ"; "STEP"; "OM"}*/

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/*"FLAGG-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"FLAGG-" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FLAGG-" -> {"ENTIRER"; "EUCDOM"}*/
"FLAGG-" -> "PID/OAGROUP"
/*"FLAGG-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FLAGG-" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"FLAGG-" -> {"CHARZ"; "STEP"; "OM"}*/

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/*"FLINEXP" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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"FLINEXP" -> "PID/OAGROUP"
/*"FLINEXP" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FLINEXP" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "PATMAB"}*/
/*"FLINEXP" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

"FLINEXP-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FLINEXP"]
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/*"FLINEXP-" -> {"ENTIRER"; "EUCDOM"}*/
"FLINEXP-" -> "PID/OAGROUP"
/*"FLINEXP-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"FLINEXP-" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
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/*"FRETRCT" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"FRETRCT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FRETRCT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FRETRCT" -> {"ENTIRER"; "EUCDOM"}*/
"FRETRCT" -> "PID/OAGROUP"
/*"FRETRCT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FRETRCT" -> {"ORDSET"; "DIFRING"; "KONVERT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"FRETRCT" -> {"REAL"; "CHARZ"; "STEP"}*/

"FRETRCT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FRETRCT"]
/*"FRETRCT-" -> {"RETRACT"; "TYPE"; "INS"; "UFD"; "GCDDOM"; "INTDOM"}*/
/*"FRETRCT-" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"FRETRCT-" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/

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/*"FRETRCT-" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"FRETRCT-" -> {"MODULE"; "ENTIRER"; "EUCDOM"}*/
"FRETRCT-" -> "PID/OAGROUP"
/*"FRETRCT-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"FRETRCT-" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "LINEXP"}*/
/*"FRETRCT-" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/*"FSERIES" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FSERIES" -> {"LMODULE"; "MODULE"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"FSERIES" -> {"ORDSET"; "PI"; "NNI"; "INT"; "INS"; "UFD"; "GCDDOM"}*/
/*"FSERIES" -> {"INTDOM"; "ENTIRER"; "EUCDOM"}*/
"FSERIES" -> "PID/OAGROUP"
/*"FSERIES" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FSERIES" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"FSERIES" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "LIST"}*/

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/*"FT" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FT" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"FT" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"FT" -> "PID/OAGROUP"
/*"FT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FT" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"FT" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "INT"; "LIST"; "ILIST"}*/
/*"FT" -> "BOOLEAN"*/

"IDPOAMS" [color="#88FF44",href="bookvol10.3.pdf#nameddest=IDPOAMS"]
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/*"IDPOAMS" -> {"KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "IDPC"; "INT"}*/
/*"IDPOAMS" -> {"LIST"; "ILIST"}*/

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/*"INFINITY" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
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/*"INFINITY" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"INFINITY" -> "EUCDOM"*/
"INFINITY" -> "PID/OAGROUP"
/*"INFINITY" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"INFINITY" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
/*"INFINITY" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

/* Note that INS has a circular self reference */
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/*"INS" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"INS" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"INS" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"INS" -> "PID/OAGROUP"
/*"INS" -> "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"INS" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"INS" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "NNI"; "INT"}*/
/*"INS" -> {"BOOLEAN"; "DFLOAT"}*/

"INS-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=INS",
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/*"INS-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"INS-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"INS-" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"INS-" -> "PID/OAGROUP"
/*"INS-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"INS-" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"INS-" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "NNI"; "INT"}*/
/*"INS-" -> {"BOOLEAN"; "DFLOAT"}*/

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/*"LA" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"LA" -> {"LMODULE"; "MODULE"; "BMODULE"; "RMODULE"; "ORDRING"}*/
"LA" -> "OAGROUP"
/*"LA" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "COMRING"}*/

"LNAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=LNAGG",
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/*"LNAGG" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"LNAGG" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"LNAGG" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"LNAGG" -> "PID/OAGROUP"
/*"LNAGG" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
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/*"LNAGG" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"}*/
/*"LNAGG" -> {"CLAGG"; "OM"; "INT"; "BOOLEAN"; "NNI"}*/

"LNAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=LNAGG",
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/*"LNAGG-" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"LNAGG-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
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/*"LNAGG-" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
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/*"LNAGG-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
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/*"LNAGG-" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "IXAGG"; "HOAGG"; "AGG"}*/
/*"LNAGG-" -> {"TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"LNAGG-" -> {"OM"; "INT"; "BOOLEAN"; "NNI"}*/

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/*"MAPPKG4" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"MAPPKG4" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
/*"MAPPKG4" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"MAPPKG4" -> "PID/OAGROUP"
/*"MAPPKG4" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"MAPPKG4" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"MAPPKG4" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/

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"NNI" -> "OAMONS"
/*"NNI" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"}*/
/*"NNI" -> {"KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "MONOID"; "SGROUP"}*/
/*"NNI" -> {"NNI"; "INT"; "BOOLEAN"}*/

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/*"OINTDOM" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"OINTDOM" -> {"MODULE"; "ENTIRER"; "ORDRING"}*/
"OINTDOM" -> "OAGROUP"
/*"OINTDOM" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/

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"OMLO" -> "MLO"
/*"OMLO" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"OMLO" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"OMLO" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "DIFRING"; "COMRING"}*/

"ORDRING" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ORDRING",
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/*"ORDRING" -> {"KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"}*/
/*"ORDRING" -> {"RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"; "INT"}*/

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          shape=ellipse]
"ORDRING-" -> "OAGROUP"
/*"ORDRING-" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"; "BASTYPE"}*/
/*"ORDRING-" -> {"KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"; "RING"}*/
/*"ORDRING-" -> {"RNG"; "SGROUP"; "MONOID"; "LMODULE"; "INT"}*/

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/*"ORTHPOL" -> {"MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"; "PI"; "INS-"}*/
/*"ORTHPOL" -> {"ALGEBRA"; "MODULE"; "INS"; "UFD"; "GCDDOM"; "INTDOM"}*/
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"ORTHPOL" -> "PID/OAGROUP"
/*"ORTHPOL" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"ORTHPOL" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"ORTHPOL" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
/*"ORTHPOL" -> "STEP"*/

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/*"PADICCT" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"PADICCT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
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/*"PMPRED" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"PMPRED" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"PMPRED" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/*"PMASS" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"PMASS" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"PMASS" -> "PID/OAGROUP"
/*"PMASS" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"PMASS" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"PMASS" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/*"PTFUNC2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"PTFUNC2" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"PTFUNC2" -> "PID/OAGROUP"
/*"PTFUNC2" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"PTFUNC2" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"PTFUNC2" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/

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/*"RADCAT" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
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/*"RADCAT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"RADCAT" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
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/*"RADCAT-" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"RADCAT-" -> "EUCDOM"*/
"RADCAT-" -> "PID/OAGROUP"
/*"RADCAT-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
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/*"RATRET" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"RATRET" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"RATRET" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"RATRET" -> "EUCDOM"*/
"RATRET" -> "PID/OAGROUP"
/*"RATRET" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"RATRET" -> {"ORDSET"; "DIFRING"; "KONVERT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"RATRET" -> {"REAL"; "CHARZ"; "STEP"}*/

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/*"RADUTIL" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
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"RADUTIL" -> "PID/OAGROUP"
/*"RADUTIL" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
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/*"RADUTIL" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/* Note that SINT references itself! */
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/*"SINT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SINT" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"SINT" -> "PID/OAGROUP"
/*"SINT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SINT" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"SINT" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "LOGIC"; "OM"; "SINT"; "INT"}*/

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/*"STAGG" -> {"ELTAB"; "CLAGG"; "KONVERT"; "BOOLEAN"; "SINT"; "NNI"; "INT"}*/
/*"STAGG" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
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/*"STAGG" -> {"ENTIRER"; "EUCDOM"}*/
"STAGG" -> "PID/OAGROUP"
/*"STAGG" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
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/*"STAGG-" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "BOOLEAN"; "SINT"}*/
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/*"STAGG-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
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/*"STAGG-" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
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/*"STAGG-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"STAGG-" -> {"ORDSET"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"STAGG-" -> {"REAL"; "CHARZ"; "STEP"; "OM"; "LIST"; "ILIST"}*/

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/*"UPXS2" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
/*"UPXS2" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
"UPXS2" -> "PID/OAGROUP"
/*"UPXS2" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"UPXS2" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"XFALG" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "RETRACT"}*/

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/*"ZLINDEP" -> {"ENTIRER"; "EUCDOM"}*/
"ZLINDEP" -> "PID/OAGROUP"
/*"ZLINDEP" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"ZLINDEP" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
/*"ZLINDEP" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/

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## Layer7

Depends on: AMR FIELD FIELD- FLAGG FLAGG- FRETRCT PADICCT RADCAT XFALG

Used by next layer: A1AGG A1AGG- ARR2CAT FAMR FPC LIECAT LZSTAGG OREP- CAT PSCAT TRANFUN VSPACE XPOLYC

— layer7 —

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LAYER7=\
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  ${OUT}/ASP34.o      ${OUT}/BBTREE.o    ${OUT}/BFUNCT.o    ${OUT}/BLAS1.o    \
  ${OUT}/BPADIC.o     \
  ${OUT}/BTREE.o      ${OUT}/CRAPACK.o    ${OUT}/DEQUEUE.o    ${OUT}/DIRRING.o \
  ${OUT}/DIV.o        ${OUT}/DLIST.o     \
  ${OUT}/DRAWCX.o     ${OUT}/DRAWPT.o    ${OUT}/DO1GBFA.o    ${OUT}/DO2EJFA.o \
  ${OUT}/DO3FAFA.o    ${OUT}/FAMR.o      ${OUT}/FAMR-.o      ${OUT}/FIELD.o    \
  ${OUT}/FLASORT.o    \
  ${OUT}/FLAGG2.o     ${OUT}/FGROUP.o    ${OUT}/FM.o         ${OUT}/FM1.o      \
  ${OUT}/FPC.o        ${OUT}/FPC-.o      ${OUT}/FMONOID.o    ${OUT}/INDE.o     \
  ${OUT}/IPADIC.o     ${OUT}/IROOT.o      ${OUT}/IR2.o        ${OUT}/LEXP.o     \
  ${OUT}/LIECAT.o     ${OUT}/LIECAT-.o    ${OUT}/LIST2.o      ${OUT}/LIST2MAP.o \
  ${OUT}/LMOPS.o      ${OUT}/LZSTAGG.o    ${OUT}/LZSTAGG-.o   ${OUT}/MAGMA.o    \
  ${OUT}/MESH.o       ${OUT}/MOEBIUS.o    ${OUT}/MODFIELD.o   ${OUT}/MODOP.o    \
  ${OUT}/MRING.o      ${OUT}/MTHING.o    ${OUT}/NCNTFRAC.o   ${OUT}/NCODIV.o   \
  ${OUT}/NUMTUBE.o    ${OUT}/ODR.o        ${OUT}/OFMONOID.o   ${OUT}/ONECOMP.o  \
  ${OUT}/ORDCOMP.o    ${OUT}/OREPCAT.o    ${OUT}/OREPCAT-.o   ${OUT}/OWP.o      \

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${OUT}/PACPERC.o \
${OUT}/PADIC.o      ${OUT}/PATTERN2.o ${OUT}/PATLRES.o  ${OUT}/PARTPERM.o \
${OUT}/PBWLB.o      ${OUT}/PENDTREE.o ${OUT}/PGE.o      ${OUT}/PGROEB.o \
${OUT}/PINTERP.o    ${OUT}/PLOTTOOL.o ${OUT}/PFR.o      ${OUT}/PMDOWN.o \
${OUT}/PMINS.o      ${OUT}/PMLSAGG.o  ${OUT}/PMTOLS.o   ${OUT}/PRITION.o \
${OUT}/PSCAT.o      ${OUT}/PSCAT-.o   ${OUT}/QFORM.o    ${OUT}/QUEUE.o \
${OUT}/SCACHE.o     ${OUT}/SEG.o      ${OUT}/SEG2.o     ${OUT}/SEXOF.o \
${OUT}/STACK.o      ${OUT}/STAYLOR.o  ${OUT}/TABLBUMP.o ${OUT}/TABLEAU.o \
${OUT}/TOPSP.o      ${OUT}/TRANFUN.o  ${OUT}/TRANFUN-.o ${OUT}/TUBE.o \
${OUT}/UDPO.o       ${OUT}/UNISEG.o   ${OUT}/VIEW.o     ${OUT}/VSPACE.o \
${OUT}/VSPACE-.o    ${OUT}/XPOLYC.o   ${OUT}/XPR.o \
layer7done

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— layerpic —

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/* layer 7 */
/* depends on: AMR FIELD FIELD- FLAGG FLAGG- FRETRCT PADICCT RADCAT XFALG */

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/*"A1AGG" -> {"CLAGG"; "KONVERT"; "ORDSET"; "INS"; "UFD"; "GCDDOM"}*/
/*"A1AGG" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"A1AGG" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
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/*"A1AGG" -> {"CHARZ"; "STEP"; "OM"; "BOOLEAN"; "SINT"; "INT"}*/
/*"A1AGG" -> {"NNI"; "LIST"; "ILIST"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"A1AGG" -> {"RCAGG"; "ELAGG"}*/

"A1AGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=A1AGG"]
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/*"A1AGG-" -> {"CLAGG"; "KONVERT"; "ORDSET"; "INS"; "UFD"; "GCDDOM"}*/
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/*"A1AGG-" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"A1AGG-" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
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/*"A1AGG-" -> {"OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"A1AGG-" -> {"BOOLEAN"; "SINT"; "INT"; "NNI"; "LIST"; "ILIST"}*/
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/*"ARR2CAT" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
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/*"CLAGG-" -> {"ORDSET"; "ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "NNI"}*/
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/*"LSAGG-" -> {"OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"LZSTAGG" -> {"LIST"; "ILIST"; "NNI"; "SINT"; "LSAGG"}*/
"LZSTAGG" -> "FLAGG"
/*"LZSTAGG" -> {"ORDSET"; "ELAGG"; "OM"}*/

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/*"LZSTAGG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"}*/
/*"LZSTAGG-" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
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/*"PGE" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"PGE" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"PGE" -> {"REAL"; "CHARZ"; "STEP"; "SINT"; "NNI"; "INT"}*/
/*"PGE" -> {"LIST"; "ILIST"; "LSAGG-"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"PGE" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PGE" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
"PGE" -> "FLAGG"
/*"PGE" -> {"ELAGG"; "OM"; "STAGG-"; "ELAGG-"; "PI"}*/

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/*"PGROEB" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"PGROEB" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"PGROEB" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"PGROEB" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PGROEB" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
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/*"PINTERP" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PINTERP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"PINTERP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"PINTERP" -> {"ENTIRER"; "UFD"; "DIVRING"}*/

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/*"PLOTTOOL" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PLOTTOOL" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"PLOTTOOL" -> {"UFD"; "DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"PLOTTOOL" -> {"OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
"PLOTTOOL" -> "RADCAT"
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/*"PFR" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"PFR" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"PFR" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
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/*"PFR" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"PFR" -> {"EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"PFR" -> {"CLAGG"; "KONVERT"}*/
"PFR" -> "FLAGG"
/*"PFR" -> {"ORDSET"; "ELAGG"; "OM"; "PI"; "NNI"; "INS"; "OINTDOM"}*/
/*"PFR" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
/*"PFR" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/*"PMDOWN" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PMDOWN" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"PMDOWN" -> "FLAGG"
/*"PMDOWN" -> {"ORDSET"; "ELAGG"; "OM"}*/

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/*"PRITITION" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"PRITITION" -> {"KONVERT"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"PRITITION" -> "ELAGG-*/
"PRITITION" -> "FLAGG-"
/*"PRITITION" -> {"BOOLEAN"; "NNI"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"PRITITION" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"PRITITION" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
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/*"PRITITION" -> {"ELAGG"; "OM"; "INS"; "UFD"; "GCDDOM"; "INTDOM"}*/
/*"PRITITION" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "SGROUP"; "MONOID"}*/
/*"PRITITION" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/

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/*PRTITION" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
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/*"PMINS" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"PMINS" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
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/*"PMINS" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"PMINS" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PMINS" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
"PMINS" -> "FLAGG"
/*"PMINS" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "NNI"; "LSAGG-"}*/
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/*"PMLSAGG" -> "KONVERT"}*/
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/*"PMTOOLS" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PMTOOLS" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
"PMTOOLS" -> "FLAGG"
/*"PMTOOLS" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
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/*"PSCAT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"}*/
/*"PSCAT" -> {"MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "OAMON"}*/
/*"PSCAT" -> {"OASGP"; "ORDSET"; "INT"; "INS"; "UFD"; "GCDDOM"; "EUCDOM"}*/
/*"PSCAT" -> {"PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "DIFRING"}*/
/*"PSCAT" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"PSCAT" -> "STEP"}*/
"PSCAT" -> "FIELD"
/*"PSCAT" -> "DIVRING"}*/

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/*"PSCAT-" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"PSCAT-" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"PSCAT-" -> {"INT"; "INS"; "UFD"; "GCDDOM"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"PSCAT-" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "DIFRING"; "KONVERT"}*/
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"QFORM" -> "FIELD"
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/*"QFORM" -> {"RNG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
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/*"QUEUE" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"QUEUE" -> "FLAGG"
/*"QUEUE" -> {"ORDSET"; "ELAGG"; "OM"; "STAGG-"; "ELAGG-"}*/
"QUEUE" -> "FLAGG-"
/*"QUEUE" -> "URAGG-"/>

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/*"RNS" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"RNS" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"RNS" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"RNS" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "FPS"; "RNS"}*/
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/*"RNS" -> "DIVRING"*/
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/*"RNS-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"RNS-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"RNS-" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"RNS-" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"RNS-" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"RNS-" -> {"REAL"; "CHARZ"; "STEP"; "FPS"; "RNS"}*/
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/*"SCACHE" -> {"IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"SCACHE" -> "KONVERT"*/
"SCACHE" -> "FLAGG"
/*"SCACHE" -> {"ELAGG"; "OM"; "LSAGG-"; "STAGG-"; "ELAGG-"; "SINT"}*/

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/*"SEG" -> {"OASGP"; "ORDSET"; "ABELMON"; "ABELSG"; "CABMON"; "ABELGRP"}*/
/*"SEG" -> {"RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"; "LIST"}*/
/*"SEG" -> {"ILIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"SEG" -> {"AGG"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"SEG" -> {"ELTAB"; "CLAGG"; "KONVERT"}*/
"SEG" -> "FLAGG"
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/*"SEG2" -> "KONVERT"*/
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/*"SEXOF" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"}*/
/*"SEXOF" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"SEXOF" -> "FLAGG"
/*"SEXOF" -> {"ORDSET"; "ELAGG"; "OM"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
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/*"STACK" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"STACK" -> "FLAGG"
/*"STACK" -> {"ORDSET"; "ELAGG"; "OM"}*/

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/*"STTAYLOR" -> {"LMODULE"; "SINT"; "NNI"; "INT"; "LIST"; "ILIST"}*/
/*"STTAYLOR" -> {"LSAGG-"; "STAGG-"; "PI"; "ALGEBRA"; "MODULE"; "BMODULE"}*/
/*"STTAYLOR" -> {"RMODULE"; "INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"STTAYLOR" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"STTAYLOR" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"}*/
/*"STTAYLOR" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
/*"STTAYLOR" -> "STEP"*/
"STTAYLOR" -> "FIELD"
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/*"TABLBUMP" -> {"BOOLEAN"; "ILIST"; "LSAGG-"; "STAGG-"; "PI"; "NNI"}*/
/*"TABLBUMP" -> "ELAGG-*/
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/*"TABLEAU" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"TABLEAU" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
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/*"TOPSP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
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/*"TOPSP" -> {"REAL"; "KONVERT"; "RETRACT"}*/
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/*"TRANFUN" -> {"PI"; "NNI"; "INT"}*/
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/*"TRANFUN" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
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/*"TRANFUN-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "PI"}*/
/*"TRANFUN-" -> {"NNI"; "INT"}*/
"TRANFUN-" -> "FIELD"
/*"TRANFUN-" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
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/*"TUBE" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"TUBE" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"TUBE" -> {"BASTYPE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"TUBE" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"TUBE" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"TUBE" -> {"REAL"; "KONVERT"; "RETRACT"}*/
"TUBE" -> "RADCAT"
/*"TUBE" -> {"PATMAB"; "CHARZ"; "BOOLEAN"}*/

"UDPO" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UDPO"]

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/*"UDPO" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "INT"; "LIST"; "ILIST"}*/
/*"UDPO" -> {"BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"UDPO" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"}*/
/*"UDPO" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"UDPO" -> "FLAGG"
/*"UDPO" -> {"ORDSET"; "ELAGG"; "OM"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/

"UFD" [color="#4488FF",href="bookvol10.2.pdf#nameddest=UFD",
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/*"UFD" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"UFD" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"UFD" -> {"MODULE"; "ENTIRER"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"UFD" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"UFD" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
"UFD" -> "FLAGG"
/*"UFD" -> {"ORDSET"; "ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "NNI"}*/

"UFD-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=UFD",
      shape=ellipse]
/*"UFD-" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"UFD-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"UFD-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"UFD-" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "LSAGG"}*/
/*"UFD-" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"UFD-" -> {"EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"UFD-" -> {"ELTAB"; "CLAGG"; "KONVERT"}*/
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/*"UFD-" -> {"ORDSET"; "ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "NNI"}*/

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/*"UNISEG" -> {"INT"; "BOOLEAN"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"UNISEG" -> {"OASGP"; "ORDSET"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"UNISEG" -> {"ABELGRP"; "RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"UNISEG" -> {"LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
"UNISEG" -> "FLAGG-"
/*"UNISEG" -> {"URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"}*/
/*"UNISEG" -> {"ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/

"URAGG" [color="#4488FF",href="bookvol10.2.pdf#nameddest=URAGG",
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/*"URAGG" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"URAGG" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "BOOLEAN"; "INT"; "LIST"}*/
/*"URAGG" -> {"ILIST"; "LSAGG"; "STAGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"URAGG" -> {"ELTAB"; "CLAGG"; "KONVERT"}*/
"URAGG" -> "FLAGG"
/*"URAGG" -> {"ORDSET"; "ELAGG"; "OM"; "NNI"; "SINT"}*/

"URAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=URAGG",

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        shape=ellipse]
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/*"URAGG-" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "BOOLEAN"; "INT"; "LIST"}*/
/*"URAGG-" -> {"ILIST"; "LSAGG"; "STAGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"URAGG-" -> {"ELTAB"; "CLAGG"; "KONVERT"}*/
"URAGG-" -> "FLAGG"
/*"URAGG-" -> {"ORDSET"; "ELAGG"; "OM"; "NNI"; "SINT"}*/

"VIEW" [color="#FF4488",href="bookvol10.4.pdf#nameddest=VIEW"]
/*"VIEW" -> {"INT"; "LIST"; "FPS"; "RNS"}*/
"VIEW" -> "FIELD"
/*"VIEW" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"VIEW" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"VIEW" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"VIEW" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"VIEW" -> {"UFD"; "DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"VIEW" -> {"OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
"VIEW" -> "RADCAT"
/*"VIEW" -> {"PATMAB"; "CHARZ"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"VIEW" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"VIEW" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
"VIEW" -> "FLAGG"
/*"VIEW" -> {"ELAGG"; "OM"; "ILIST"; "SINT"; "PI"; "NNI"}*/

"VSPACE" [color="#4488FF",href="bookvol10.2.pdf#nameddest=VSPACE"]
"VSPACE" -> "FIELD"
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/*"VSPACE" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"VSPACE" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"VSPACE" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"VSPACE" -> {"UFD"; "DIVRING"}*/

"VSPACE-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=VSPACE"]
"VSPACE-" -> "FIELD"
/*"VSPACE-" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"VSPACE-" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"VSPACE-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"VSPACE-" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"VSPACE-" -> {"UFD"; "DIVRING"}*/

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"XPOLYC" -> "XFALG"
/*"XPOLYC" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"XPOLYC" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"XPOLYC" -> {"LMODULE"; "XALG"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"XPOLYC" -> {"MODULE"; "RETRACT"}*/

"XPR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=XPR"]
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/*"XPR" -> {"XALG"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "FMCAT"}*/
/*"XPR" -> {"RETRACT"; "COMRING"; "ORDMON"; "ORDSET"; "LSAGG"; "STAGG"}*/
/*"XPR" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"XPR" -> {"IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"XPR" -> "KONVERT"*/
"XPR" -> "FLAGG"
/*"XPR" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"XPR" -> "ELAGG-"/
"XPR" -> "FLAGG-"
/*"XPR" -> {"URAGG-"; "BOOLEAN"; "NNI"}*/
"XPR" -> "FIELD"
/*"XPR" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "ENTIRER"; "UFD"}*/
/*"XPR" -> "DIVRING"*/

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## Layer8

Depends on: A1AGG A1AGG- ARR2CAT FAMR FPC LIECAT LZSTAGG OREPCAT  
PSCAT TRANFUN VSPACE XPOLYC PACPERC

Used by next layer: BTAGG FLALG MATCAT SRAGG VECTCAT

— layer8 —

```

LAYER8=\
  ${OUT}/AFFSP.o \
  ${OUT}/APPLYORE.o ${OUT}/ARRAY1.o ${OUT}/ARRAY12.o ${OUT}/ARRAY2.o \
  ${OUT}/ASTACK.o ${OUT}/BTAGG.o ${OUT}/BTAGG-.o ${OUT}/COMBINAT.o \
  ${OUT}/CSTTOOLS.o ${OUT}/DO1FCFA.o ${OUT}/EO4MBFA.o ${OUT}/FAMR2.o \
  ${OUT}/FARRAY.o ${OUT}/FLALG.o ${OUT}/GALUTIL.o ${OUT}/HEAP.o \
  ${OUT}/IARRAY1.o ${OUT}/IARRAY2.o ${OUT}/IFARRAY.o ${OUT}/INTCAT.o \
  ${OUT}/INTHEORY.o ${OUT}/IRREDFFX.o ${OUT}/LFCAT.o ${OUT}/LODOCAT.o \
  ${OUT}/LODOCAT-.o ${OUT}/LWORD.o ${OUT}/MATCAT.o ${OUT}/MATCAT-.o \
  ${OUT}/MATSTOR.o ${OUT}/ORESUP.o ${OUT}/OREPCTO.o ${OUT}/OREUP.o \
  ${OUT}/PACFFC.o \
  ${OUT}/PLOT3D.o ${OUT}/POLYVEC.o \
  ${OUT}/PR.o ${OUT}/PREASSOC.o ${OUT}/PRIMARR2.o \
  ${OUT}/PROJSP.o \
  ${OUT}/REDORDER.o ${OUT}/SRAGG.o ${OUT}/SRAGG-.o ${OUT}/STREAM.o \
  ${OUT}/SYMPOLY.o ${OUT}/TS.o ${OUT}/TUPLE.o ${OUT}/UPSCAT.o \
  ${OUT}/UPSCAT-.o ${OUT}/U8VEC.o ${OUT}/U16VEC.o ${OUT}/U32VEC.o \
  ${OUT}/VECTCAT.o ${OUT}/VECTCAT-.o ${OUT}/XDPOLY.o \
  ${OUT}/XEXPPKG.o ${OUT}/XF.o ${OUT}/XF-.o ${OUT}/XPBPOLY.o \
  ${OUT}/XPOLY.o ${OUT}/XRPOLY.o \
  layer8done

```

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— layerpic —

```

/* layer 8 */
/* depends on: A1AGG A1AGG- ARR2CAT FAMR FPC LIECAT LZSTAGG OREPCAT PSCAT */
/* TRANFUN VSPACE XPOLYC PACPREC */

"AFFSP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=AFFSP"]
/*"AFFSP" -> {"AFSPCAT"; "SETCATD"; "SETCAT"; "BASTYPE"; "KOERCE"; "FIELD"}*/
/*"AFFSP" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"AFFSP" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"AFFSP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"AFFSP" -> {"ENTIRER"; "UFD"; "DIVRING"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"AFFSP" -> {"PI"; "NNI"; "FFIELDC"}*/
"AFFSP" -> "FPC"
"AFFSP" -> "PACPERC"
/*"AFFSP" -> {"CHARNZ"; "FINITE"; "STEP"; "DIFRING"; "STAGG-"; "ELAGG-"}*/
/*"AFFSP" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"AFFSP" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/
/*"AFFSP" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"AFFSP" -> {"EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"AFFSP" -> {"CLAGG"; "KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"; "OM"}*/
/*"AFFSP" -> {"BOOLEAN"}*/

"APPLYORE" [color="#FF4488",href="bookvol10.4.pdf#nameddest=APPLYORE"]
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/*"APPLYORE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"APPLYORE" -> "LMODULE"*/
"APPLYORE" -> "OREPCAT"
/*"APPLYORE" -> {"BMODULE"; "RMODULE"; "FRETRACT"; "RETRACT"; "ALGEBRA"}*/
/*"APPLYORE" -> {"MODULE"; "SINT"; "NNI"; "INT"}*/

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/*"ARRAY1" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "INT"; "LSAGG"}*/
/*"ARRAY1" -> {"STAGG"; "URAGG"; "RCAGG"; "ELAGG"; "OM"; "LIST"; "ILIST"}*/
/*"ARRAY1" -> {"NNI"; "INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"ARRAY1" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ARRAY1" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"ARRAY1" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"ARRAY1" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"ARRAY1" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"ARRAY1" -> {"REAL"; "CHARZ"; "STEP"}*/

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"ARRAY12" -> "A1AGG"
/*"ARRAY12" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "SETCAT"}*/

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/*"ARRAY12" -> {"BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "ELTAGG"}*/
/*"ARRAY12" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"}*/

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/*"ARRAY2" -> {"EVALAB"; "IEVALAB"}*/
"ARRAY2" -> "A1AGG"
/*"ARRAY2" -> {"FLAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"ARRAY2" -> {"KONVERT"; "ORDSET"; "INT"}*/

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/*"ASTACK" -> {"BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "INT"}*/
"ASTACK" -> "A1AGG"
/*"ASTACK" -> {"FLAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"ASTACK" -> {"KONVERT"; "ORDSET"; "ELAGG"; "LIST"; "ILIST"; "SINT"}*/
/*"ASTACK" -> {"NNI"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"}*/
/*"ASTACK" -> {"LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"}*/
/*"ASTACK" -> {"ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/
/*"ASTACK" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"ASTACK" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"ASTACK" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"ASTACK" -> {"MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"ASTACK" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
/*"ASTACK" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
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"BTAGG" -> "A1AGG"
/*"BTAGG" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"BTAGG" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/

"BTAGG-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=BTAGG"]
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"BTAGG-" -> "A1AGG"
/*"BTAGG-" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
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/*"COMBINAT" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"COMBINAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"COMBINAT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"COMBINAT" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"}*/
/*"COMBINAT" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"COMBINAT" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"COMBINAT" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "NNI"; "INT"; "OM"}*/
"COMBINAT" -> "A1AGG"

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/*"COMBINAT" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
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/*"COMBINAT" -> {"ELAGG"; "SINT"; "MONOID-"; "ABELMON-"; "PI"}*/

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"CSTTOOLS" -> "LZSTAGG"
/*"CSTTOOLS" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "SETCAT"}*/
/*"CSTTOOLS" -> {"BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"CSTTOOLS" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "SINT"}*/
/*"CSTTOOLS" -> {"NNI"; "INT"}*/

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/*"D01FCFA" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"D01FCFA" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"D01FCFA" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"D01FCFA" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"D01FCFA" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"D01FCFA" -> {"ORDSET"; "REAL"; "KONVERT"; "RETRACT"; "RADCAT"}*/
/*"D01FCFA" -> {"PATMAB"; "CHARZ"; "SINT"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"D01FCFA" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"D01FCFA" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"}*/
/*"D01FCFA" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "NNI"; "LSAGG-"}*/
/*"D01FCFA" -> {"STAGG-"; "DIFRING"}*/
"D01FCFA" -> "TRANFUN"
/*"D01FCFA" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "SPFCAT"}*/
/*"D01FCFA" -> {"PI"; "MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"}*/
/*"D01FCFA" -> {"DFLOAT"; "INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"}*/
/*"D01FCFA" -> {"ALGEBRA-"; "DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"}*/
/*"D01FCFA" -> "ABELGRP-"/>

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/*"E04MBFA" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"E04MBFA" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"E04MBFA" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"E04MBFA" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"E04MBFA" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"E04MBFA" -> {"ORDSET"; "REAL"; "KONVERT"; "RETRACT"; "RADCAT"}*/
/*"E04MBFA" -> {"PATMAB"; "CHARZ"; "DIFRING"; "OM"}*/
"E04MBFA" -> "TRANFUN"
/*"E04MBFA" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "SPFCAT"}*/
/*"E04MBFA" -> {"INT"; "NNI"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"E04MBFA" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
/*"E04MBFA" -> {"TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"E04MBFA" -> {"ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "ELAGG-"; "DFLOAT"}*/
/*"E04MBFA" -> {"PI"; "INS-"; "MONOID-"; "ABELMON-"; "BOOLEAN"}*/

"FAMR2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FAMR2"]

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/*"FAMR2" -> {"SGROUP"; "MONOID"; "LMODULE"}*/
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/*"FARRAY" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "ELAGG"; "INS"}*/
/*"FARRAY" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"FARRAY" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
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/*"GALUTIL" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"}*/
/*"GALUTIL" -> {"RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "INT"; "NNI"; "PI"}*/
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/*"GALUTIL" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
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/*"INTHEORY" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"}*/
/*"INTHEORY" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"}*/
/*"INTHEORY" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
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/*"LWORD" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
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/*"MTSCAT" -> {"EVALAB"; "RADCAT"}*/
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/*"ORESUP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "FRETRACT"; "RETRACT"}*/
/*"ORESUP" -> {"ALGEBRA"; "MODULE"; "INTDOM"; "COMRING"; "ENTIRER"}*/
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/*"OREUP" -> {"DIVRING"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
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/*"POLYVEC" -> {"DIFRING" "RETRACT" "LINEXP" "PATMAB" "CFCAT" "REAL"}*/
/*"POLYVEC" -> {"CHARZ" "STEP" "INS-" "EUCDOM-" "UFD-" "GCDDOM-" "INTDOM-"}*/
/*"POLYVEC" -> {"ALGEBRA-" "DIFRING-" "ORDRING-" "MODULE-" "RING-"}*/
/*"POLYVEC" -> {"ABELGRP-" "ABELMON-" "MONOID-" "ORDSET-" "ABELSG-"}*/
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/*"PR" -> {"IXAGG-"; "NNI"; "PI"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"PR" -> {"UFD"; "DIVRING"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
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/*"PRIMARR" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
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"PROJSP" -> "FPC"
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/*"PROJSP" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"}*/
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/*"SRAGG" -> {"CLAGG"; "KONVERT"; "ORDSET"; "INS"; "UFD"; "GCDDOM"}*/
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/*"SRAGG" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"XEXPPKG" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"XEXPPKG" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "KONVERT"; "LINEXP"}*/
/*"XEXPPKG" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "PI"}*/

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/*"XF" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"XF" -> {"ENTIRER"; "UFD"; "DIVRING"; "RETRACT"}*/
"XF" -> "VSPACE"
/*"XF" -> "CHARZ"*/
"XF" -> "FPC"
/*"XF" -> {"CHARNZ"; "FINITE"; "BOOLEAN"; "NNI"; "INT"}*/

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/*"XF-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
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/*"XF-" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"XF-" -> {"DIVRING"; "RETRACT"}*/
"XF-" -> "VSPACE"
/*"XF-" -> "CHARZ"*/
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/*"XPBWPOLY" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"XPBWPOLY" -> {"DIFRING"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
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/*"XPOLY" -> {"LMODULE"; "XALG"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
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/*"XRPOLY" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"XRPOLY" -> {"LMODULE"; "XALG"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
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## Layer9

Depends on: BTAGG FLALG LODOCAT MATCAT SRAGG VECTCAT XF PROJSP  
PACFFC

Used by next layer: IVECTOR PTCAT STRICAT

— layer9 —

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LAYER9=\
${OUT}/AFFPL.o    ${OUT}/BITS.o    ${OUT}/DFMAT.o    ${OUT}/DFVEC.o  \
${OUT}/DIRPROD2.o ${OUT}/IMATRIX.o  ${OUT}/INTRVL.o  \
${OUT}/IVECTOR.o  ${OUT}/LOCPOWC.o  \
${OUT}/LODO1.o    ${OUT}/LODO2.o    ${OUT}/LPOLY.o    \
${OUT}/LSMP.o     ${OUT}/LSMP1.o    ${OUT}/MAMA.o     ${OUT}/MATCAT2.o \
${OUT}/PROJPL.o   ${OUT}/PTCAT.o    ${OUT}/STRICAT.o  ${OUT}/TRIMAT.o  \
${OUT}/U8MAT.o    ${OUT}/U16MAT.o   ${OUT}/U32MAT.o  \
layer9done

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— layerpic —

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/* layer 9 */
/* Depends on: BTAGG FLALG INTCAT LODOCAT MATCAT SRAGG UPSCAT VECTCAT */
/* AFFSP */

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/*"BITS" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "INT"}*/
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/*"BITS" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"BITS" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
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/*"BITS" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
/*"BITS" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/
/*"BITS" -> {"STEP"; "OM"}*/

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/*"DFMAT" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "FPS"; "RNS"; "FIELD"}*/
/*"DFMAT" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"DFMAT" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"DFMAT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
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/*"DFMAT" -> {"OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
/*"DFMAT" -> {"RADCAT"; "PATMAB"; "CHARZ"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"DFMAT" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "INT"; "DIFRING"; "OM"}*/
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/*"INTRVL" -> {"RETRACT"; "FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"}*/
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/*"LOCPOWC" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"LOCPOWC" -> {"OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"}*/
/*"LOCPOWC" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
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/*"LPOLY" -> {"KOERCE"; "RMODULE"; "FMCAT"; "RETRACT"; "COMRING"}*/
/*"LPOLY" -> {"RING"; "RNG"; "SGROUP"; "MONOID"; "ORDSET"; "LSAGG"}*/
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/*"LPOLY" -> {"CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
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/*"LSMP" -> {"TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
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"LSMP" -> "MATCAT"
/*"LSMP" -> {"ARR2CAT"; "NNI"; "INT"; "BOOLEAN"; "PRIMARR"; "SINT"}*/
/*"LSMP" -> {"A1AGG"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"LSMP" -> {"OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"LSMP1" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"MATCAT2" -> "ARR2CAT"*/

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/*"PROJPL" -> {"PRSPCAT"; "SETCATD"; "SETCAT"; "BASTYPE"; "KOERCE"; "FIELD"}*/
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/*"PROJPL" -> {"EUCDDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"PROJPL" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"PROJPL" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"PROJPL" -> {"ENTIRER"; "UFD"; "DIVRING"}*/

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/*"TRIMAT" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"}*/
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/*"ULSCAT" -> {"PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"ULSCAT" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"ULSCAT" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
"ULSCAT" -> "UPSCAT"
/*"ULSCAT" -> {"PSCAT"; "AMR"; "CHARNZ"; "ELTAB"; "PDRING"; "RADCAT"}*/
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/*"U16MAT" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"U16MAT" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"}*/
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## Layer10

Depends on: IVECTOR PTCAT STRICAT LOCPOWC

Used by next layer: DIRPCAT FAXF PFECAT STRING

— layer10 —

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LAYER10=\
  ${OUT}/ASSOCEQ.o  ${OUT}/CARTEN.o  ${OUT}/CLIF.o    ${OUT}/CLIP.o    \
  ${OUT}/COORDSYS.o  ${OUT}/DBASE.o   ${OUT}/DHMATRIX.o  ${OUT}/DIOSP.o   \
  ${OUT}/DIRPCAT.o   ${OUT}/DIRPCAT-.o  ${OUT}/DO2BBFA.o  ${OUT}/DO2BHFA.o \
  ${OUT}/DO2CJFA.o   ${OUT}/FAXF.o     ${OUT}/FAXF-.o    ${OUT}/FFPOLY2.o \
  ${OUT}/FNLA.o      ${OUT}/GRAY.o     ${OUT}/HB.o       ${OUT}/INBFF.o   \
  ${OUT}/IRSN.o      ${OUT}/LOP.o      \
  ${OUT}/MCALCFN.o   ${OUT}/MHROWRED.o  ${OUT}/NUMODE.o   \
  ${OUT}/NUMQUAD.o   ${OUT}/ODESYS.o   ${OUT}/ODETOOLS.o  ${OUT}/ORDFUNS.o \

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${OUT}/PERMAN.o    ${OUT}/PFECAT.o    ${OUT}/PFECAT-.o    ${OUT}/POINT.o    \
${OUT}/PSEUDLIN.o  ${OUT}/PTPACK.o    ${OUT}/REP2.o    ${OUT}/SETMN.o    \
${OUT}/SEX.o       ${OUT}/STRING.o    ${OUT}/SYMFUNC.o    ${OUT}/VECTOR2.o    \
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— layerpic —

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/* depends on: IVECTOR PTCAT STRICAT */

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/*"CLIP" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "ORDRING"}*/
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/*"D02BBFA" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"D02BBFA" -> {"DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"D02BBFA" -> {"REAL"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "VECTCAT"}*/
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"D02BBFA" -> "IVECTOR"
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/*"ODETOOLS" -> {"ILIST"; "VECTOR"; "VECTCAT"; "A1AGG"}*/
"ODETOOLS" -> "IVECTOR"
/*"ODETOOLS" -> {"IARRAY1"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"ODETOOLS" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "LINEXP"; "PATMAB"}*/
/*"ODETOOLS" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

"ORDFUNS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ORDFUNS"]
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/*"ORDFUNS" -> {"KOERCE"; "ABELMON"; "ABELSG"; "SINT"; "NNI"; "INT"}*/
/*"ORDFUNS" -> "VECTOR"/>
"ORDFUNS" -> "IVECTOR"
/*"ORDFUNS" -> {"IARRAY1"; "BOOLEAN"}*/

"PERMAN" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PERMAN"]
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/*"PERMAN" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"PERMAN" -> {"LMODULE"; "INT"; "VECTOR"}*/
"PERMAN" -> "IVECTOR"

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/*"PERMAN" -> {"IARRAY1"; "PI"; "NNI"; "BOOLEAN"; "SINT"; "VECTCAT"}*/
/*"PERMAN" -> {"A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"PERMAN" -> {"EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"PERMAN" -> {"ORDSET"; "INTDOM"; "COMRING"; "BMODULE"; "RMODULE"}*/
/*"PERMAN" -> {"ALGEBRA"; "MODULE"; "ENTIRER"}*/

"PFECAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=PFECAT"]
/*"PFECAT" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"PFECAT" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"PFECAT" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PFECAT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"PFECAT" -> {"CHARNZ"; "INT"; "VECTOR"}*/
"PFECAT" -> "IVECTOR"
/*"PFECAT" -> {"IARRAY1"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"}*/

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/*"PFECAT-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"PFECAT-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PFECAT-" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"PFECAT-" -> {"CHARNZ"; "INT"; "VECTOR"}*/
"PFECAT-" -> "IVECTOR"
/*"PFECAT-" -> {"IARRAY1"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"}*/

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"POINT" -> "PTCAT"
/*"POINT" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"POINT" -> {"AGG"; "TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"}*/
/*"POINT" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"}*/
/*"POINT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"POINT" -> {"SGROUP"; "MONOID"; "LMODULE"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"POINT" -> {"RCAGG"; "ELAGG"; "OM"; "INT"; "LIST"; "ILIST"}*/
/*"POINT" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
/*"POINT" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"POINT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"POINT" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"POINT" -> {"CHARZ"; "STEP"; "NNI"; "PI"; "RADCAT"}*/

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/*"PSEUDLIN" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PSEUDLIN" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"PSEUDLIN" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"PSEUDLIN" -> {"ENTIRER"; "UFD"; "DIVRING"; "INT"; "LIST"}*/
/*"PSEUDLIN" -> {"ILIST"; "BOOLEAN"; "NNI"; "VECTOR"}*/
"PSEUDLIN" -> "IVECTOR"
/*"PSEUDLIN" -> {"IARRAY1"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"PSEUDLIN" -> {"IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PSEUDLIN" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "SINT"}*/

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/*"PTPACK" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"PTPACK" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"}*/
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/*"REP2" -> {"LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"REP2" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "VECTOR"}*/
"REP2" -> "IVECTOR"
/*"REP2" -> {"IARRAY1"; "BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"REP2" -> {"ELAGG"; "OM"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "EUCDOM"}*/
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/*"REP2" -> {"LNAGG-"; "IXAGG-"; "INS"; "UFD"; "OINTDOM"; "ORDRING"}*/
/*"REP2" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "RETRACT"}*/
/*"REP2" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
/*"REP2" -> {"ELAGG-"; "URAGG-"; "FIELD"; "DIVRING"; "MATCAT"; "ARR2CAT"}*/
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/*"SETMN" -> {"IARRAY1"; "VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"}*/
/*"SETMN" -> {"CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
/*"SETMN" -> {"BASTYPE-"; "NNI"; "PI"; "SINT"; "LIST"; "ILIST"}*/
/*"SETMN" -> {"BOOLEAN"; "BTAGG"; "ORDSET"; "LOGIC"; "A1AGG"; "FLAGG"}*/
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/*"SEX" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"SEX" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SEX" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"SEX" -> {"REAL"; "CHARZ"; "STEP"; "FPS"; "RNS"; "FIELD"}*/
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"SEX" -> "STRICAT"
/*"SEX" -> {"SRAGG"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
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/*"STRING" -> {"OM"; "INT"; "ORDFIN"; "FINITE"; "INS"; "UFD"}*/
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/*"STRING" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"STRING" -> {"OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"}*/
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/*"SYMBOL" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SYMBOL" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"SYMBOL" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SYMBOL" -> {"DIFRING"; "RETRACT"; "LINEXP"; "CFCAT"; "REAL"}*/
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/*"SYMBOL" -> {"RADCAT"; "INT"; "PRIMARR"; "A1AGG-"; "SYMBOL"; "REF"}*/
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/*"SYMBOL" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/
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/*"SYMBOL" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"}*/
/*"SYMBOL" -> {"CLAGG"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "ELAGG"}*/
/*"SYMBOL" -> {"ILIST"; "NNI"; "BOOLEAN"; "LSAGG-"; "STAGG-"; "ORDFIN"}*/
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/*"SYMFUNC" -> {"PI"; "NNI"; "INT"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"SYMFUNC" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"SYMFUNC" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"SYMFUNC" -> {"ORDSET"; "ELAGG"; "OM"; "LIST"; "ILIST"; "INS"}*/
/*"SYMFUNC" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"; "RMODULE"}*/
/*"SYMFUNC" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"SYMFUNC" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SYMFUNC" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"SYMFUNC" -> {"CHARZ"; "STEP"; "VECTOR"}*/
"SYMFUNC" -> "IVECTOR"
/*"SYMFUNC" -> {"IARRAY1"; "SINT"; "VECTCAT"; "A1AGG"; "MONOID-"}*/

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/*"SYMFUNC" -> {"ABELMON-"; "VECTCAT-"; "A1AGG-"}*/

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/*"UPOLYC" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"UPOLYC" -> {"PATMAB"; "GCDDOM"; "PFECAT"; "UFD"; "ELTAB"; "DIFRING"}*/
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/*"UPOLYC" -> {"NNI"; "INT"; "LIST"; "ILIST"; "VECTOR"}*/
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/*"UPOLYC" -> {"IARRAY1"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"UPOLYC" -> {"OAMON"; "OASGP"; "CFCAT"; "REAL"; "OM"; "VECTCAT"}*/
/*"UPOLYC" -> {"A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"}*/
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/*"UPOLYC-" -> {"LMODULE"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"UPOLYC-" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"UPOLYC-" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRACT"}*/
/*"UPOLYC-" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"UPOLYC-" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"; "PFECAT"}*/
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/*"UPOLYC-" -> {"EUCDOM"; "PID"; "FIELD"; "DIVRING"; "NNI"; "INT"}*/
/*"UPOLYC-" -> {"LIST"; "ILIST"; "VECTOR"}*/
"UPOLYC-" -> "IVECTOR"
/*"UPOLYC-" -> {"IARRAY1"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"UPOLYC-" -> {"OCAMON"; "OAMON"; "OASGP"; "CFCAT"; "REAL"; "OM"}*/
/*"UPOLYC-" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"UPOLYC-" -> {"AGG"; "TYPE"; "ELTAGG"; "CLAGG"; "PI"; "BOOLEAN"}*/

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/*"VECTOR2" -> {"ORDSET"; "INT"; "VECTOR"}*/
"VECTOR2" -> "IVECTOR"
/*"VECTOR2" -> {"IARRAY1"; "VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"}*/
/*"VECTOR2" -> {"IXAGG-"; "LIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"VECTOR2" -> {"ELAGG"; "OM"; "ILIST"}*/

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**Layer11**

Depends on: DIRPCAT FAXF PFECAT STRING LOP

Used by next layer: DIOPS DPOLCAT FINRALG FRAC RMACAT RRCC UPXSCAT

— layer11 —

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  ${OUT}/ASP50.o     ${OUT}/ASP6.o     ${OUT}/ASP73.o    ${OUT}/AXSERV.o    \
  ${OUT}/BALFACT.o   ${OUT}/BEZOUT.o    ${OUT}/BINARY.o   ${OUT}/BINFILE.o   \
  ${OUT}/BOUNDZRO.o  ${OUT}/BPADICRT.o   ${OUT}/BRILL.o    ${OUT}/CDEN.o      \
  ${OUT}/CHVAR.o     ${OUT}/COMMUPC.o    ${OUT}/CONTFRAC.o ${OUT}/CVMF.o       \
  ${OUT}/CYCLOTOM.o  ${OUT}/CYCLES.o     ${OUT}/DDFACT.o   ${OUT}/DECIMAL.o   \
  ${OUT}/DIOPS.o     ${OUT}/DIOPS-.o    ${OUT}/DIRPROD.o  ${OUT}/DISPLAY.o   \
  ${OUT}/DMP.o       ${OUT}/DPMO.o     ${OUT}/DPOLCAT.o  ${OUT}/DPOLCAT-.o \
  ${OUT}/DSTREE.o    \
  ${OUT}/DO1AJFA.o   ${OUT}/DO1AKFA.o    ${OUT}/DO1ALFA.o  ${OUT}/DO1AMFA.o   \
  ${OUT}/DO1APFA.o   ${OUT}/DO1AQFA.o    ${OUT}/EMR.o       ${OUT}/EQ.o         \
  ${OUT}/ERROR.o     ${OUT}/EVALCYC.o    ${OUT}/EXP3D.o     \
  ${OUT}/EO4DGFA.o   ${OUT}/EO4FDFA.o    \
  ${OUT}/EO4GCFA.o   ${OUT}/EO4JFA.o     ${OUT}/EO4UCFA.o   ${OUT}/FACUTIL.o   \
  ${OUT}/FF.o        ${OUT}/FFFACTOR.o  \
  ${OUT}/FFCG.o      ${OUT}/FFCGX.o    ${OUT}/FFFG.o      \
  ${OUT}/FFFGF.o     ${OUT}/FFHOM.o    ${OUT}/FFNB.o      ${OUT}/FFNBX.o     \
  ${OUT}/FFPOLY.o    ${OUT}/FFSQFR.o    \
  ${OUT}/FFX.o       ${OUT}/FFSLPE.o    ${OUT}/FGLMICPK.o \
  ${OUT}/FILE.o      ${OUT}/FINAALG.o    ${OUT}/FINAALG-.o  ${OUT}/FINRALG.o   \
  ${OUT}/FINRALG-.o  ${OUT}/FFF.o        ${OUT}/FLOATRP.o   ${OUT}/FNAME.o     \
  ${OUT}/FOP.o       ${OUT}/FORMULA.o    ${OUT}/FORT.o      ${OUT}/FRAC.o       \
  ${OUT}/FTEM.o      ${OUT}/GENEEZ.o     ${OUT}/GENMFACT.o  ${OUT}/GENPGCD.o   \
  ${OUT}/GALFACTU.o  ${OUT}/GALPOLYU.o    ${OUT}/GB.o        ${OUT}/GBEUCCLID.o \
  ${OUT}/GBF.o       ${OUT}/GBINTERN.o   ${OUT}/GHENSEL.o   ${OUT}/GMODPOL.o    \
  ${OUT}/GOSPER.o    ${OUT}/GRIMAGE.o    ${OUT}/GROEBSOL.o  ${OUT}/HDMP.o       \
  ${OUT}/HDP.o       ${OUT}/HEXADEC.o    ${OUT}/HEUGCD.o    ${OUT}/HTMLFORM.o  \
  ${OUT}/IBPTTOOLS.o \
  ${OUT}/IFF.o       ${OUT}/IBITS.o     ${OUT}/ICARD.o     ${OUT}/ICDEN.o      \
  ${OUT}/IDECOMP.o   ${OUT}/IIARRAY2.o   ${OUT}/IMATLIN.o   ${OUT}/IMATQF.o     \
  ${OUT}/INMODGCD.o  ${OUT}/INNMFAC.o    ${OUT}/INPSIGN.o   ${OUT}/INTERGB.o    \
  ${OUT}/INTHERTR.o  \
  ${OUT}/INTRAT.o    ${OUT}/INTRF.o     ${OUT}/INTSLPE.o   ${OUT}/INTTR.o      \
  ${OUT}/ISUMP.o     ${OUT}/LAUPOL.o    ${OUT}/LEADCDET.o  ${OUT}/LGROBP.o     \
  ${OUT}/LIMITRF.o   ${OUT}/LINDEP.o    ${OUT}/LISYSER.o   \
  ${OUT}/LO.o        ${OUT}/LPEFRAC.o    \
  ${OUT}/LSPP.o      ${OUT}/MATLIN.o    ${OUT}/MCDEN.o     ${OUT}/MDDFACT.o    \
  ${OUT}/MFINFACT.o  ${OUT}/MFLOAT.o    ${OUT}/MINT.o      ${OUT}/MLIFT.o       \
  ${OUT}/MMAP.o      ${OUT}/MODMON.o    ${OUT}/MONOTOOL.o  ${OUT}/MPCPF.o       \
  ${OUT}/MPC2.o      ${OUT}/MPC3.o     ${OUT}/MPOLY.o     ${OUT}/MPRFF.o       \
  ${OUT}/MRATFAC.o   ${OUT}/MULTSQFR.o   ${OUT}/NORMRETR.o  ${OUT}/NPCOEFF.o     \
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${OUT}/PCOMP.o      ${OUT}/PDECOMP.o \
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${OUT}/PFOTOOLS.o   \
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${OUT}/PLPKCRV.o    \
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${OUT}/POLTOPOL.o   ${OUT}/POLYCATQ.o ${OUT}/POLYLIFT.o ${OUT}/POLYROOT.o \
${OUT}/POLY2.o      ${OUT}/POLY2UP.o  ${OUT}/PRS.o      ${OUT}/PSQFR.o    \
${OUT}/PUSHVAR.o    ${OUT}/QALGSET.o  ${OUT}/QFCAT2.o   ${OUT}/RADIX.o    \
${OUT}/RATFACT.o    ${OUT}/RCFIELD.o  ${OUT}/RCFIELD-.o ${OUT}/RDETR.o    \
${OUT}/RDETRS.o     ${OUT}/REAL0.o    ${OUT}/REAL0Q.o   ${OUT}/REALSOLV.o \
${OUT}/RESRING.o    ${OUT}/RETSOL.o   ${OUT}/RF.o       ${OUT}/RFFACTOR.o \
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${OUT}/SIGNRF.o     ${OUT}/SMITH.o    ${OUT}/SMP.o      ${OUT}/SMTS.o     \
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${OUT}/UPXSCAT.o    ${OUT}/UPSQFREE.o  ${OUT}/VIEWDEF.o  ${OUT}/VIEW2D.o   \
${OUT}/VOID.o       ${OUT}/WEIER.o    ${OUT}/WP.o \
layer11done

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— layerpic —

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/* layer 11 */
/* depends on: DIRPCAT FAXF PFECAT STRING */

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/*"COMMUPC" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"COMMUPC" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"COMMUPC" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"COMMUPC" -> {"PATMAB"; "GCDDOM"}*/
"COMMUPC" -> "PFECAT"
/*"COMMUPC" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
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/*"CONTFRAC" -> {"FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"CONTFRAC" -> {"PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"CONTFRAC" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
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/*"CONTFRAC" -> {"BOOLEAN"; "INT"; "LIST"; "ILIST"; "LSAGG"; "STAGG"}*/

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/*"CVMP" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"CYCLOTOM" -> {"STEP"; "INT"; "NNI"; "SINT"; "LIST"; "UPOLY"}*/
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/*"DDFACT" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
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/*"DDFACT" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
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/*"DECIMAL" -> {"INS"; "CFCAT"; "OM"; "FPS"; "RNS"; "RADCAT"; "UPOLYC"}*/
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/*"GHENSEL" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
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/*"IDECOMP" -> {"ILIST"; "NNI"; "BOOLEAN"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"IDECOMP" -> {"FLAGG-"; "URAGG-"}*/

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"IFF" -> "FAXF"
/*"IFF" -> {"XF"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"IFF" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"IFF" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"IFF" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"IFF" -> {"DIVRING"; "RETRACT"; "VSPACE"; "CHARZ"; "FPC"; "CHARNZ"}*/
/*"IFF" -> {"FINITE"; "FFIELDC"; "STEP"; "DIFRING"; "KONVERT"; "OAMONS"}*/
/*"IFF" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "INS"; "OINTDOM"}*/
/*"IFF" -> {"ORDRING"; "OAGROUP"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/

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/*"IIARRAY2" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*"IIARRAY2" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "INT"}*/
/*"IIARRAY2" -> {"PRIMARR"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"IIARRAY2" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "NNI"; "INS"; "UFD"; "GCDDOM"}*/
/*"IIARRAY2" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"IIARRAY2" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"IIARRAY2" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/

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/*"IIARRAY2" -> {"EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"IIARRAY2" -> {"OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"IIARRAY2" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"; "A1AGG"}*/
"IIARRAY2" -> "STRING"
/*"IIARRAY2" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "ISTRING"}*/

/* Note that ILIST has a circular self reference */
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/*"ILIST" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"ILIST" -> {"ORDSET"; "ELAGG"; "SINT"; "NNI"; "INT"; "BOOLEAN"; "LIST"}*/
/*"ILIST" -> {"ILIST"; "OM"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
"ILIST" -> "STRING"
/*"ILIST" -> {"CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "INS"}*/
/*"ILIST" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"ILIST" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"ILIST" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"ILIST" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"ILIST" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"}*/
/*"ILIST" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

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/*"IMATLIN" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"IMATLIN" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"IMATLIN" -> {"ENTIRER"; "UFD"; "DIVRING"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*"IMATLIN" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"}*/
/*"IMATLIN" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "MATCAT"; "ARR2CAT"}*/
/*"IMATLIN" -> {"BOOLEAN"; "INT"; "SINT"; "NNI"; "LIST"; "A1AGG"; "PI"}*/
/*"IMATLIN" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"IMATLIN" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"}*/
/*"IMATLIN" -> "PATMAB"*/
"IMATLIN" -> "PFECAT"
/*"IMATLIN" -> {"DIFRING"; "DIFEXT"; "STEP"; "QFCAT"; "FEVALAB"; "PATAB"}*/
/*"IMATLIN" -> {"FPATMAB"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"IMATLIN" -> {"OAMON"; "OASGP"; "REAL"; "VECTCAT"; "OM"}*/

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/*"IMATQF" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
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/*"IMATQF" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"}*/
/*"IMATQF" -> {"RETRACT"; "FEVALAB"; "DIFEXT"; "DIFRING"; "PDRING"}*/
/*"IMATQF" -> {"FLINEXP"; "LINEXP"; "PATAB"; "FPATMAB"; "PATMAB"; "STEP"}*/

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/*"IMATQF" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"IMATQF" -> {"OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
"IMATQF" -> "PFECAT"

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/*"INMODGCD" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"INMODGCD" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"INMODGCD" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"INMODGCD" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
"INMODGCD" -> "PFECAT"
/*"INMODGCD" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "FIELD"}*/
/*"INMODGCD" -> {"DIVRING"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"INMODGCD" -> {"OCAMON"; "OAMON"; "OASGP"; "CFCAT"; "REAL"; "INT"}*/
/*"INMODGCD" -> {"LIST"; "ILIST"; "BOOLEAN"; "NNI"; "LSAGG-"; "STAGG-"}*/
/*"INMODGCD" -> {"ELAGG-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"INMODGCD" -> {"AGG"; "TYPE"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
/*"INMODGCD" -> {"FLAGG"; "ELAGG"; "OM"; "OAMONS"; "FLAGG-"; "PI"}*/
/*"INMODGCD" -> {"MONOID-"; "ABELMON-"}*/

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/*"INNMFAC" -> {"RNG"; "ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"INNMFAC" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"}*/
/*"INNMFAC" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"INNMFAC" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"INNMFAC" -> {"KONVERT"; "PATMAB"}*/
"INNMFAC" -> "PFECAT"
/*"INNMFAC" -> {"UFD"; "PI"; "NNI"; "INT"; "MONOID-"; "ABELSG-"}*/
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/*"INNMFAC" -> {"DIFEXT"; "STEP"; "FIELD"; "DIVRING"; "BOOLEAN"; "LSAGG-"}*/
/*"INNMFAC" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "SINT"; "LSAGG"; "STAGG"}*/
/*"INNMFAC" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "LNAGG"; "IXAGG"}*/
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/*"INPSIGN" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"INPSIGN" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/
/*"INPSIGN" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"INPSIGN" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"INTERGB" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"INTERGB" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"INTERGB" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"INTERGB" -> {"ENTIRER"; "UFD"; "DIVRING"; "OAMONS"; "OCAMON"; "OAMON"}*/
/*"INTERGB" -> {"OASGP"; "ORDSET"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"INTERGB" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"INTERGB" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
"INTERGB" -> "PFECAT"
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/*"INT" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"INT" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"INT" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"INT" -> {"REAL"; "CHARZ"; "STEP"; "OM"; "INT"; "NNI"; "DFLOAT"}*/
"INT" -> "STRING"
/*"INT" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "PRIMARR"; "A1AGG-"}*/
/*"INT" -> {"ISTRING"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"INT" -> {"CHARNZ"; "FRETRCT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
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/*"INTHERTR" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"INTHERTR" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"INTHERTR" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"INTHERTR" -> {"ENTIRER"; "UFD"; "DIVRING"; "UPOLYC"; "POLYCAT"; "PDRING"}*/
/*"INTHERTR" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"INTHERTR" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"INTHERTR" -> {"KONVERT"; "PATMAB"}*/
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/*"INTRAT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"INTRAT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"INTRAT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"INTRAT" -> {"DIVRING"; "CHARZ"; "RETRACT"; "UPOLYC"; "POLYCAT"; "PDRING"}*/
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/*"INTRAT" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
"INTRAT" -> "PFECAT"
/*"INTRAT" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "QFCAT"; "FEVALAB"}*/
/*"INTRAT" -> {"PATAB"; "FPATMAB"; "TYPE"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"INTRAT" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"}*/

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/*"INTRF" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "RETRACT"; "CHARZ"}*/
/*"INTRF" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"INTRF" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"INTRF" -> {"PATMAB"; "GCDDOM"}*/
"INTRF" -> "PFECAT"
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/*"INTSLPE" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"INTSLPE" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
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/*"INTSLPE" -> {"OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
/*"INTSLPE" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
/*"INTSLPE" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"}*/
/*"INTSLPE" -> {"FRETRCT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
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/*"INTTR" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
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/*"INTTR" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
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/*"INTTR" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "QFCAT"; "FEVALAB"}*/
/*"INTTR" -> {"PATAB"; "FPATMAB"; "TYPE"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"INTTR" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"; "BOOLEAN"; "NNI"; "INT"}*/
/*"INTTR" -> {"PRIMARR"; "INS"; "CFCAT"; "LIST"; "ILIST"; "PI"; "LSAGG"}*/
/*"INTTR" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LSAGG"; "STAGG"}*/
/*"INTTR" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/

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/*"INTTR" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "SINT"}*/

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/*"ISUMP" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"; "INTDOM"}*/
/*"ISUMP" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "SGROUP"; "MONOID"}*/
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/*"ISUMP" -> {"ENTIRER"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"ISUMP" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"ISUMP" -> {"FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"ISUMP" -> "PFECAT"
/*"ISUMP" -> {"UFD"; "INS"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"}*/
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/*"ISUMP" -> {"FIELD"; "DIVRING"; "FEVALAB"; "ELTAB"; "DIFEXT"; "PATAB"}*/
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/*"LAUPOL" -> {"LMODULE"; "DIFRING"; "PDRING"; "INTDOM"; "COMRING"}*/
/*"LAUPOL" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"LAUPOL" -> {"EUCDOM"; "PID"; "GCDDOM"; "FIELD"; "UFD"; "DIVRING"}*/
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/*"LAUPOL" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "PATMAB"}*/
"LAUPOL" -> "PFECAT"
/*"LAUPOL" -> {"ELTAB"; "STEP"; "INT"; "BOOLEAN"; "NNI"; "LIST"; "ILIST"}*/
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/*"LEADCDET" -> {"KONVERT"; "PATMAB"}*/
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/*"LEADCDET" -> {"UFD"; "SINT"; "NNI"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
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/*"LGROBP" -> {"EUCDOM"; "PID"; "UFD"; "DIVRING"; "ORDFIN"; "PI"; "BOOLEAN"}*/
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/*"MODMON" -> {"PATMAB"; "GCDDOM"}*/
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/*"PADICRC" -> {"PADICCT"; "INT"; "INS"; "CFCAT"; "BOOLEAN"; "INS-"}*/
/*"PADICRC" -> {"LIST"; "ILIST"; "SINT"; "NNI"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"PADICRC" -> {"RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"PADICRC" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "LSAGG-"; "FPS"; "RNS"}*/
/*"PADICRC" -> {"RADCAT"; "UPOLYC"; "POLYCAT"; "FAMR"; "AMR"; "FRETRCT"}*/

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"PARAMP" -> "DIRPCAT"
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/*"PARAMP" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"PARAMP" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"PARAMP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"PARAMP" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"PARAMP" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"PARAMP" -> {"LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "IXAGG"; "HOAGG"}*/
/*"PARAMP" -> {"AGG"; "TYPE"; "ELTAGG"; "ELTAB"; "DIFEXT"; "DIFRING"}*/
/*"PARAMP" -> {"FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"PARAMP" -> {"OAMONS"; "VSPACE"; "UPSCAT"; "PSCAT"; "INT"; "LIST"; "ILIST"}*/
/*"PARAMP" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "CLAGG"; "FLAGG"}*/
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/*"PCOMP" -> {"SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"}*/
/*"PCOMP" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"PCOMP" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"PCOMP" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"PCOMP" -> {"PATMAB"; "GCDDOM"}*/
"PCOMP" -> "PFECAT"
/*"PCOMP" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
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/*"PDECOMP" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"}*/
/*"PDECOMP" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"PDECOMP" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/

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/*PDECOMP" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*PDECOMP" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"PDECOMP" -> "PFECAT"
/*PDECOMP" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
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/*PDECOMP" -> "LIST"*/

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/*PF" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*PF" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*PF" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*PF" -> {"XF"; "RETRACT"; "VSPACE"; "CHARZ"; "KONVERT"; "OAMONS"}*/
/*PF" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "INS"; "OINTDOM"}*/
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/*PFBR" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"; "OCAMON"; "OAMON"}*/
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/*PFBR" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
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/*PFBR" -> {"DIFEXT"; "STEP"; "EUCDOM"; "PID"; "FIELD"; "DIVRING"}*/
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/*PFBRU" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
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/*"PFRPAC" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
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/*PINTERPA" -> {"KONVERT"; "PATMAB"}*/
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/*PLEQN" -> {"KONVERT"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "POLYCAT"}*/
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/*PLEQN" -> {"INT"; "INS"; "CFCAT"; "OM"; "LIST"; "VECTOR"; "IVECTOR"}*/
/*PLEQN" -> {"IARRAY1"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*PLEQN" -> {"HOAGG"; "AGG"; "ELTAGG"; "CLAGG"; "SINT"; "ILIST"; "LSAGG-"}*/
/*PLEQN" -> {"STAGG-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "ELAGG"}*/
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/*"PNTHEORY" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
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/*"PNTHEORY" -> {"ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"; "ABELMON-"}*/
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"POLTOPOL" -> "DIRPCAT"
/*"POLTOPOL" -> {"FRETRCT"; "RETRACT"; "BMODULE"; "RMODULE"; "DIFEXT"}*/
/*"POLTOPOL" -> {"DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"; "ALGEBRA"}*/
/*"POLTOPOL" -> {"MODULE"; "COMRING"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"POLTOPOL" -> {"OAMON"; "OASGP"; "OAMONS"; "VSPACE"; "FIELD"; "EUCDOM"}*/
/*"POLTOPOL" -> {"PID"; "GCDDOM"; "INTDOM"; "ENTIRER"; "UFD"; "DIVRING"}*/

"POLUTIL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLUTIL"]
/*"POLUTIL" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"POLUTIL" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"POLUTIL" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"POLUTIL" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"POLUTIL" -> {"ENTIRER"; "UFD"; "DIVRING"; "UPOLYC"; "POLYCAT"; "PDRING"}*/
/*"POLUTIL" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"POLUTIL" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"POLUTIL" -> {"KONVERT"; "PATMAB"}*/
"POLUTIL" -> "PFECAT"
/*"POLUTIL" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "BOOLEAN"; "INT"}*/
/*"POLUTIL" -> {"LIST"; "NNI"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"POLUTIL" -> {"AGG"; "TYPE"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"}*/
/*"POLUTIL" -> {"ELAGG"; "OM"; "ILIST"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"POLUTIL" -> {"OAMON"; "OASGP"; "LSAGG-"; "STAGG-"}*/

"POLYCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=POLYCAT",
shape=ellipse]
/*"POLYCAT" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "OAMONS"}*/
/*"POLYCAT" -> {"OCAMON"; "OAMON"; "OASGP"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"POLYCAT" -> {"POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"; "SGROUP"}*/
/*"POLYCAT" -> {"MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"POLYCAT" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"POLYCAT" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"POLYCAT" -> {"FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"POLYCAT" -> "PFECAT"
/*"POLYCAT" -> {"UFD"; "INT"; "LIST"; "ILIST"; "BOOLEAN"; "NNI"; "LSAGG"}*/
/*"POLYCAT" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "LNAGG"}*/

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/*"POLYCAT" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"POLYCAT" -> {"OM"; "LSAGG-"; "STAGG-"; "VECTOR"; "IVECTOR"; "IARRAY1"}*/
/*"POLYCAT" -> {"INS"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"POLYCAT" -> {"DIFRING"; "CFCAT"; "REAL"; "STEP"; "VECTCAT"; "A1AGG"}*/
/*"POLYCAT" -> {"VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"}*/
/*"POLYCAT" -> {"UPOLYC"; "DIFEXT"; "FIELD"; "DIVRING"; "FPS"; "RNS"}*/
/*"POLYCAT" -> {"RADCAT"; "SEXCAT"}*/

"POLYCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=POLYCAT",
           shape=ellipse]
/*"POLYCAT-" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "OAMONS"}*/
/*"POLYCAT-" -> {"OCAMON"; "OAMON"; "OASGP"; "ABELMON"; "ABELSG"}*/
/*"POLYCAT-" -> {"CABMON"; "POLYCAT"; "PDRING"; "RING"; "RNG"}*/
/*"POLYCAT-" -> {"ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"}*/
/*"POLYCAT-" -> {"AMR"; "BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"}*/
/*"POLYCAT-" -> {"MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"POLYCAT-" -> {"FRETRACT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"POLYCAT-" -> {"LINEXP"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"POLYCAT-" -> "PFECAT"
/*"POLYCAT-" -> {"UFD"; "INT"; "LIST"; "ILIST"; "BOOLEAN"; "NNI"}*/
/*"POLYCAT-" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
/*"POLYCAT-" -> {"TYPE"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"POLYCAT-" -> {"FLAGG"; "ELAGG"; "OM"; "LSAGG-"; "STAGG-"; "VECTOR"}*/
/*"POLYCAT-" -> {"IVECTOR"; "IARRAY1"; "INS"; "EUCDOM"; "PID"}*/
/*"POLYCAT-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "DIFRING"; "CFCAT"}*/
/*"POLYCAT-" -> {"REAL"; "STEP"; "VECTCAT"; "A1AGG"; "VECTCAT-"}*/
/*"POLYCAT-" -> {"A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"; "UPOLYC"}*/
/*"POLYCAT-" -> {"DIFEXT"; "FIELD"; "DIVRING"; "FPS"; "RNS"; "RADCAT"}*/
/*"POLYCAT-" -> "SEXCAT"*/

/* Note that this depends on POLYCAT in this layer but POLYCAT is */
/* part of the layer0 clique and thus guaranteed to be compiled. */
"POLYCATQ" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLYCATQ"]
/*"POLYCATQ" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"}*/
/*"POLYCATQ" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"POLYCATQ" -> {"RING"; "RNG"; "ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"POLYCATQ" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"POLYCATQ" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"POLYCATQ" -> {"INTDOM"; "ENTIRER"; "FRETRACT"; "RETRACT"; "EVALAB"}*/
/*"POLYCATQ" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"POLYCATQ" -> "GCDDOM"*/
"POLYCATQ" -> "PFECAT"
/*"POLYCATQ" -> {"UFD"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"; "UPOLYC"}*/
/*"POLYCATQ" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "INT"; "LIST"}*/
/*"POLYCATQ" -> {"ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/

"POLYLIFT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLYLIFT"]
/*"POLYLIFT" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"}*/
/*"POLYLIFT" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"POLYLIFT" -> {"RING"; "RNG"; "ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"}*/

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/*"POLYLIFT" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"POLYLIFT" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"POLYLIFT" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"POLYLIFT" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"POLYLIFT" -> "GCDDOM"*/
"POLYLIFT" -> "PFECAT"
/*"POLYLIFT" -> {"UFD"; "BOOLEAN"}*/

"POLYROOT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLYROOT"]
/*"POLYROOT" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"}*/
/*"POLYROOT" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"POLYROOT" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "SGROUP"}*/
/*"POLYROOT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"POLYROOT" -> {"MODULE"; "ENTIRER"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"POLYROOT" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"POLYROOT" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"POLYROOT" -> "GCDDOM"*/
"POLYROOT" -> "PFECAT"
/*"POLYROOT" -> {"UFD"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"; "INT"; "NNI"}*/
/*"POLYROOT" -> {"INS-"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "DIFRING"}*/
/*"POLYROOT" -> {"CFCAT"; "REAL"; "STEP"; "EUCDOM-"; "UFD-"; "GCDDOM-"}*/

"POLY2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLY2"]
/*"POLY2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"POLY2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"POLY2" -> {"LMODULE"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "BMODULE"}*/
/*"POLY2" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"POLY2" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"POLY2" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"POLY2" -> {"KONVERT"; "PATMAB"; "GCDDOM"}*/
"POLY2" -> "PFECAT"
/*"POLY2" -> "UFD"*/

"POLY2UP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=POLY2UP"]
/*"POLY2UP" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"POLY2UP" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"POLY2UP" -> {"LMODULE"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "BMODULE"}*/
/*"POLY2UP" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"POLY2UP" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"POLY2UP" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"POLY2UP" -> {"KONVERT"; "PATMAB"; "GCDDOM"}*/
"POLY2UP" -> "PFECAT"
/*"POLY2UP" -> "UFD"*/

"PRS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PRS"]
/*"PRS" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"PRS" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"PRS" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"PRS" -> {"ENTIRER"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"PRS" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/

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/*"PRS" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"PRS" -> "PFECAT"
/*"PRS" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"}*/
/*"PRS" -> {"FIELD"; "DIVRING"; "NNI"; "INT"; "VECTOR"; "IVECTOR"}*/
/*"PRS" -> {"IARRAY1"; "VECTCAT-"; "BOOLEAN"; "PI"; "MONOID-"; "ABELMON-"}*/
/*"PRS" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"PRS" -> {"AGG"; "TYPE"; "ELTAGG"; "CLAGG"; "FINITE"; "A1AGG-"; "LIST"}*/
/*"PRS" -> {"ILIST"; "LSAGG-"; "STAGG-"}*/

"PSQFR" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PSQFR"]
/*"PSQFR" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "OAMONS"; "OCAMON"}*/
/*"PSQFR" -> {"OAMON"; "OASGP"; "ABELMON"; "ABELSG"; "CABMON"; "GCDDOM"}*/
/*"PSQFR" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "SGROUP"}*/
/*"PSQFR" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"PSQFR" -> {"MODULE"; "ENTIRER"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"PSQFR" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"PSQFR" -> {"FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
"PSQFR" -> "PFECAT"
/*"PSQFR" -> {"UFD"; "INT"; "LIST"; "ILIST"; "BOOLEAN"; "UPOLYC"; "ELTAB"}*/
/*"PSQFR" -> {"DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"; "FIELD"}*/
/*"PSQFR" -> {"DIVRING"; "NNI"}*/

"PUSHVAR" [color="#FF4488",href="bookvol10.4.pdf#nameddest=PUSHVAR"]
/*"PUSHVAR" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PUSHVAR" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"PUSHVAR" -> {"LMODULE"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"PUSHVAR" -> {"ORDSET"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "BMODULE"}*/
/*"PUSHVAR" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"PUSHVAR" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"PUSHVAR" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"}*/
/*"PUSHVAR" -> {"PATMAB"; "GCDDOM"}*/
"PUSHVAR" -> "PFECAT"
/*"PUSHVAR" -> {"UFD"; "NNI"; "INT"; "BOOLEAN"}*/

"QALGSET" [color="#88FF44",href="bookvol10.3.pdf#nameddest=QALGSET"]
/*"QALGSET" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "GCDDOM"; "INTDOM"}*/
/*"QALGSET" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"QALGSET" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"QALGSET" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"}*/
/*"QALGSET" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "POLYCAT"; "PDRING"}*/
/*"QALGSET" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"QALGSET" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"}*/
/*"QALGSET" -> "PATMAB"*/
"QALGSET" -> "PFECAT"
/*"QALGSET" -> {"UFD"; "EUCDOM"; "PID"; "INT"; "LIST"; "LSAGG"; "STAGG"}*/
/*"QALGSET" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "LNAGG"}*/
/*"QALGSET" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"QALGSET" -> {"OM"; "ILIST"; "NNI"; "BOOLEAN"; "LSAGG-"; "STAGG-"}*/
/*"QALGSET" -> {"ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"}*/
/*"QALGSET" -> {"IXAGG-"; "CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"}*/

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/*"QALGSET" -> {"SETCAT-"; "BASTYPE-"}*/

"QFCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=QFCAT",
        shape=ellipse]
/*"QFCAT" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"QFCAT" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"QFCAT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"QFCAT" -> {"MODULE"; "ENTIRER"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"QFCAT" -> {"UFD"; "DIVRING"; "RETRACT"; "FEVALAB"; "ELTAB"; "EVALAB"}*/
/*"QFCAT" -> {"IEVALAB"; "DIFEXT"; "DIFRING"; "PDRING"; "FLINEXP"}*/
/*"QFCAT" -> {"LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"}*/
/*"QFCAT" -> {"STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"QFCAT" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
"QFCAT" -> "PFECAT"
/*"QFCAT" -> {"DFLOAT"; "INS"; "CFCAT"; "FPS"; "RNS"; "RADCAT"; "INT"}*/

"QFCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=QFCAT",
        shape=ellipse]
/*"QFCAT-" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"QFCAT-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"QFCAT-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"QFCAT-" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "FIELD"}*/
/*"QFCAT-" -> {"EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"}*/
/*"QFCAT-" -> {"FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"}*/
/*"QFCAT-" -> {"DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"; "PATAB"}*/
/*"QFCAT-" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "STEP"}*/
/*"QFCAT-" -> {"ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"QFCAT-" -> {"OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
"QFCAT-" -> "PFECAT"
/*"QFCAT-" -> {"DFLOAT"; "INS"; "CFCAT"; "FPS"; "RNS"; "RADCAT"; "INT"}*/

/* Note that QFCAT2 depends on QFCAT in the same layer but QFCAT is */
/* part of the bootstrap clique so it is guaranteed to be compiled */
"QFCAT2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=QFCAT2"]
/*"QFCAT2" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"QFCAT2" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"QFCAT2" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"QFCAT2" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "QFCAT"; "FIELD"}*/
/*"QFCAT2" -> {"EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"}*/
/*"QFCAT2" -> {"FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"; "DIFRING"}*/
/*"QFCAT2" -> {"PDRING"; "FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"QFCAT2" -> {"TYPE"; "PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"}*/
/*"QFCAT2" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARZ"}*/
/*"QFCAT2" -> "CHARNZ"*/
"QFCAT2" -> "PFECAT"

"RADIX" [color="#88FF44",href="bookvol10.3.pdf#nameddest=RADIX"]
/*"RADIX" -> {"QFCAT"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"RADIX" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"RADIX" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/

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/*"RADIX" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"RADIX" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "RETRACT"; "FEVALAB"}*/
/*"RADIX" -> {"ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"; "DIFRING"; "PDRING"}*/
/*"RADIX" -> {"FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"RADIX" -> {"PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"RADIX" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
"RADIX" -> "PFECAT"
/*"RADIX" -> {"INS"; "CFCAT"; "INT"; "NNI"; "LIST"; "OM"; "ILIST"}*/
/*"RADIX" -> {"BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"RADIX" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"RADIX" -> "PI"*/
"RADIX" -> "STRING"
/*"RADIX" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"RADIX" -> {"FPS"; "RNS"; "RADCAT"; "UPOLYC"; "POLYCAT"; "FAMR"; "AMR"}*/
/*"RADIX" -> "FRETRCT"*/

"RATFACT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RATFACT"]
/*"RATFACT" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"RATFACT" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"RATFACT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"}*/
/*"RATFACT" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"RATFACT" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/
/*"RATFACT" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"RATFACT" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"RATFACT" -> "PFECAT"
/*"RATFACT" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
/*"RATFACT" -> {"PID"; "FIELD"; "DIVRING"; "INS"; "OINTDOM"; "ORDRING"}*/
/*"RATFACT" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "CFCAT"; "REAL"}*/
/*"RATFACT" -> {"INT"; "INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "QFCAT"}*/
/*"RATFACT" -> {"FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "BOOLEAN"}*/

"RCFIELD" [color="#4488FF",href="bookvol10.2.pdf#nameddest=RCFIELD"]
/*"RCFIELD" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"RCFIELD" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"RCFIELD" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"RCFIELD" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"SHDP" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/

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/*"SHP" -> {"OINTDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SHP" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SHP" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"SHP" -> {"MODULE"; "ENTIRER"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"SHP" -> {"OASGP"; "ORDSET"; "NNI"; "INT"; "LIST"; "PI"; "ILIST"}*/
/*"SHP" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "SINT"}*/
/*"SHP" -> {"BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"SHP" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"SHP" -> {"ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"; "ELAGG"; "OM"; "INS"}*/
/*"SHP" -> {"UFD"; "GCDDOM"; "EUCDOM"; "PID"; "DIFRING"; "RETRACT"}*/
/*"SHP" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "UPOLYC"}*/
/*"SHP" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"SHP" -> "FLINEXP"*/
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/*"SIGNRF" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SIGNRF" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "POLYCAT"; "PDRING"}*/
/*"SIGNRF" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"SIGNRF" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
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"SIGNRF" -> "PFECAT"
/*"SIGNRF" -> {"UFD"; "INT"; "QFCAT"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"}*/
/*"SIGNRF" -> {"FEVALAB"; "ELTAB"; "DIFEXT"; "DIFRING"; "PATAB"; "FPATMAB"}*/
/*"SIGNRF" -> {"TYPE"; "STEP"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
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/*"SMITH" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "MATCAT"}*/
/*"SMITH" -> {"ARR2CAT"; "NNI"; "INT"; "SINT"; "BOOLEAN"; "PI"; "QFCAT"}*/
/*"SMITH" -> {"FIELD"; "UFD"; "DIVRING"; "RETRACT"; "FEVALAB"; "DIFEXT"}*/
/*"SMITH" -> {"DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"; "PATAB"; "FPATMAB"}*/
/*"SMITH" -> {"PATMAB"; "STEP"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"SMITH" -> {"OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
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/*"SMP" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "LNAGG"; "IXAGG"}*/
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/*"SMTS" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "ORDSET"; "POLYCAT"}*/
/*"SMTS" -> {"FAMR"; "FRETRACT"; "RETRACT"; "FLINEXP"; "LINEXP"; "KONVERT"}*/
/*"SMTS" -> {"PATMAB"; "GCDDOM"}*/
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/*"SMTS" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"}*/
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/*"STINPROD" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"; "FIELD"; "EUCDOM"}*/
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/*"STTF" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
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/*"SUBRESP" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"SUMRF" -> {"MODULE"; "ENTIRER"; "ORDSET"; "RETRACT"; "POLYCAT"}*/
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/*"SUMRF" -> {"PATMAB"; "GCDDOM"}*/
"SUMRF" -> "PFECAT"
/*"SUMRF" -> {"UFD"; "QFCAT"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"}*/
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/*"SUP" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"SUP" -> {"FIELD"; "DIVRING"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SUP" -> {"FPC"; "INT"; "LIST"; "NNI"; "PI"; "ILIST"; "BOOLEAN"}*/
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/*"SUP" -> {"HOAGG"; "AGG"; "TYPE"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
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/*"SUPEXPR" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/
/*"SUPEXPR" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"SUPEXPR" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"SUPEXPR" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "RADCAT"}*/
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/*"SUPFRACF" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SUPFRACF" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "POLYCAT"; "PDRING"}*/
/*"SUPFRACF" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"SUPFRACF" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"}*/
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/*"SUPFRACF" -> {"UFD"; "QFCAT"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"}*/
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/*"TANEXP" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"TANEXP" -> {"KONVERT"; "PATMAB"}*/
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/*"TEX" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "PRIMARR"; "A1AGG-"}*/
/*"TEX" -> {"ISTRING"; "ILIST"; "STRICAT"; "SRAGG"; "A1AGG"; "FLAGG"}*/
/*"TEX" -> {"LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"TEX" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "OM"; "PI"}*/
/*"TEX" -> {"BOOLEAN"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"}*/
/*"TEX" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "ELAGG"; "ORDFIN"}*/
/*"TEX" -> {"FINITE"; "SRAGG-"}*/

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/*"TEXTFILE" -> {"STRICAT"; "SRAGG"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*"TEXTFILE" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "ELTAGG"}*/
/*"TEXTFILE" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "OM"}*/
"TEXTFILE" -> "STRING"
/*"TEXTFILE" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "INT"; "PRIMARR"}*/
/*"TEXTFILE" -> {"A1AGG-"; "ISTRING"; "BOOLEAN"}*/

"TREE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=TREE"]
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/*"TREE" -> {"KOERCE"; "EVALAB"; "IEVALAB"; "NNI"; "INT"; "LIST"}*/
/*"TREE" -> {"ILIST"; "BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "LNAGG"}*/
/*"TREE" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"TREE" -> {"ORDSET"; "ELAGG"; "OM"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"TREE" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"TREE" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/
/*"TREE" -> "PI"*/
"TREE" -> "STRING"
/*"TREE" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/

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/*"TWOFAC" -> {"FFIELDC"; "FPC"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"TWOFAC" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"TWOFAC" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"TWOFAC" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"TWOFAC" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"TWOFAC" -> {"CHARNZ"; "FINITE"; "STEP"; "DIFRING"; "UPOLYC"}*/
/*"TWOFAC" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "FRETRCT"}*/
/*"TWOFAC" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"TWOFAC" -> {"ORDSET"; "KONVERT"; "PATMAB"}*/
"TWOFAC" -> "PFECAT"
/*"TWOFAC" -> {"ELTAB"; "DIFEXT"; "INT"; "INS-"; "EUCDOM-"; "UFD-"}*/
/*"TWOFAC" -> {"GCDDOM-"; "INTDOM-"; "ALGEBRA-"; "DIFRING-"; "ORDRING-"}*/

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"TWOFACT" -> "FAXF"
/*"TWOFACT" -> {"XF"; "VSPACE"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
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/*"TWOFACT" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"}*/

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/*"UNIFACT" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"UNIFACT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"}*/
/*"UNIFACT" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"UNIFACT" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"UNIFACT" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"UNIFACT" -> {"KONVERT"; "PATMAB"; "GCDDOM"}*/
"UNIFACT" -> "PFECAT"
/*"UNIFACT" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
/*"UNIFACT" -> {"PID"; "FIELD"; "DIVRING"; "BOOLEAN"; "INT"; "LIST"}*/
/*"UNIFACT" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"UNIFACT" -> {"OAMON"; "OASGP"; "CFCAT"; "REAL"; "OM"; "INS-"; "NNI"}*/
/*"UNIFACT" -> {"SINT"; "PI"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"}*/
/*"UNIFACT" -> {"ALGEBRA-"; "DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"}*/
/*"UNIFACT" -> {"ABELGRP-"; "ABELMON-"; "MONOID-"; "ORDSET-"; "ABELSG-"}*/
/*"UNIFACT" -> {"SGROUP-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"UNIFACT" -> {"AGG"; "TYPE"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
/*"UNIFACT" -> {"FLAGG"; "ELAGG"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"UNIFACT" -> {"FLAGG-"; "URAGG-"}*/

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/*"UP" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"UP" -> {"SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"}*/
/*"UP" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"UP" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"UP" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"UP" -> "PFECAT"
/*"UP" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"}*/
/*"UP" -> {"FIELD"; "DIVRING"; "NNI"; "INT"; "FPS"; "RNS"; "ORDRING"}*/
/*"UP" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "RADCAT"}*/
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/*"UPCDEN" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"UPCDEN" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"UPCDEN" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "QFCAT"; "FIELD"; "EUCDOM"}*/
/*"UPCDEN" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"; "FEVALAB"}*/
/*"UPCDEN" -> {"ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"; "DIFRING"; "PDRING"}*/
/*"UPCDEN" -> {"FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"UPCDEN" -> {"PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/

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/*"UPCDEN" -> {"OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARZ"; "CHARNZ"}*/
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/*"UPCDEN" -> {"UPOLYC"; "POLYCAT"; "FAMR"; "AMR"; "FRETRCT"; "LSAGG"}*/
/*"UPCDEN" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"}*/
/*"UPCDEN" -> {"ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/

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/*"UPDECOMP" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"UPDECOMP" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"; "UPOLYC"}*/
/*"UPDECOMP" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"UPDECOMP" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"UPDECOMP" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"UPDIVP" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
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/*"UPDIVP" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"UPDIVP" -> {"PATMAB"; "GCDDOM"}*/
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/*"UPDIVP" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
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/*"UPMP" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"UPMP" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"UPMP" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"UPMP" -> {"PATMAB"; "GCDDOM"}*/
"UPMP" -> "PFECAT"
/*"UPMP" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"}*/
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/*"UPMP" -> "ABELMON-*/

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/*"UPOLYC2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"UPOLYC2" -> {"LMODULE"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"UPOLYC2" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"UPOLYC2" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/

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/*"UPOLYC2" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"UPOLYC2" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
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/*"UPOLYC2" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
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/*"UPXSCAT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"UPXSCAT" -> {"EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"UPXSCAT" -> {"OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
/*"UPXSCAT" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
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/*"UPXSCAT" -> {"UPSCAT"; "PSCAT"; "AMR"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
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/*"UPSQFREE" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"UPSQFREE" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UPOLYC"; "POLYCAT"}*/
/*"UPSQFREE" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRACT"}*/
/*"UPSQFREE" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"UPSQFREE" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
"UPSQFREE" -> "PFECAT"
/*"UPSQFREE" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
/*"UPSQFREE" -> {"PID"; "FIELD"; "DIVRING"; "FFIELDC"; "FPC"; "FINITE"}*/
/*"UPSQFREE" -> {"INT"; "INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"}*/
/*"UPSQFREE" -> {"ALGEBRA-"; "DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"}*/
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/*"VECTOR" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"}*/
/*"VECTOR" -> {"INT"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT-"; "A1AGG-"}*/
/*"VECTOR" -> {"SYMBOL"; "REF"; "ALIST"; "LIST"}*/
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/*"VECTOR" -> {"FLAGG-"; "LNAGG-"; "RADCAT"; "RING"; "RNG"; "ABELGRP"}*/
/*"VECTOR" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"VECTOR" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
/*"VECTOR" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
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/*"VECTOR" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
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/*"VIEWDEF" -> {"ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"}*/
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/*"VIEWDEF" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
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/*"VIEW2D" -> {"CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "INS"}*/
/*"VIEW2D" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
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/*"VIEW2D" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
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/*"VIEW2D" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"}*/
/*"VIEW2D" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"; "SRAGG-"}*/
/*"VIEW2D" -> {"STRICAT"; "SRAGG"; "ELAGG-"; "FLAGG-"; "FPS"; "RNS"}*/
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/*"WEIER" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"WEIER" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"WEIER" -> {"UFD"; "DIVRING"; "INT"; "LIST"; "ILIST"; "NNI"; "POLYCAT"}*/
/*"WEIER" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"WEIER" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"WEIER" -> {"KONVERT"; "PATMAB"}*/
"WEIER" -> "PFECAT"
/*"WEIER" -> {"MTSCAT"; "PSCAT"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"WEIER" -> {"HYPCAT"; "AHYP"; "ELEMFUN"}*/

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/*"WP" -> {"ALGEBRA"; "MODULE"; "BMODULE"; "RMODULE"; "OAMONS"; "OCAMON"}*/
/*"WP" -> {"OAMON"; "OASGP"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "COMRING"}*/
/*"WP" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"WP" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"WP" -> "GCDDOM"*/
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/*"WP" -> {"UFD"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
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/*"WP" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"WP" -> {"ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"}*/
/*"WP" -> {"CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
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## Layer12

Depends on: DIOPS DPOLCAT FINRALG FRAC RMACAT RRCC UPXSCAT FFSQFR  
 PACRATC PLPKCRV

Used by next layer: DIAGG FRAMALG MDAGG SMATCAT UPXSCCA

— layer12 —

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LAYER12=\
  ${OUT}/DIAGG.o    ${OUT}/DIAGG-.o    ${OUT}/DSMP.o    ${OUT}/EXPUPXS.o \
  ${OUT}/FACTRN.o   ${OUT}/FFFACTSE.o \
  ${OUT}/FRAMALG.o  ${OUT}/FRAMALG-.o  ${OUT}/INTFRSP.o  ${OUT}/LPARSPT.o \
  ${OUT}/MDAGG.o    ${OUT}/NPOLYGON.o \
  ${OUT}/ODPOL.o    ${OUT}/PLOT.o       ${OUT}/RFP.o       \
  ${OUT}/RMCAT2.o   ${OUT}/ROIRC.o      ${OUT}/SDPOL.o    \
  ${OUT}/SMATCAT.o  ${OUT}/SMATCAT-.o  ${OUT}/TUBETOOL.o  ${OUT}/UPXSCCA.o \
  ${OUT}/UPXSCCA-.o \
  layer12done

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— layerpic —

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/* layer 12 */
/* depends on: DIOPS DPOLCAT FFSQFR FINRALG FRAC RMACAT RRCC UPXSCAT */
/*              PLPKCRV */

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/*"DFLOAT" -> "MODULE-"/
"DFLOAT" -> "FRAC"
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/*"RMCAT2" -> {"DIRPCAT"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"RMCAT2" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "FRETRCT"; "RETRACT"; "BMODULE"}*/
/*"RMCAT2" -> {"RMODULE"; "DIFEXT"; "DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"RMCAT2" -> {"FINITE"; "ALGEBRA"; "MODULE"; "COMRING"; "ORDRING"}*/
/*"RMCAT2" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "OAMONS"}*/
/*"RMCAT2" -> {"VSPACE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"RMCAT2" -> {"ENTIRER"; "UFD"; "DIVRING"}*/
"RMCAT2" -> "RMCATCAT"
/*"RMCAT2" -> {"NNI"; "INT"}*/

"ROIRC" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ROIRC"]
"ROIRC" -> "RRCC"
/*"ROIRC" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"ROIRC" -> {"OAMON"; "OASGP"; "ORDSET"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"ROIRC" -> {"ABELGRP"; "RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"ROIRC" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"ROIRC" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"ROIRC" -> {"UFD"; "DIVRING"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"ROIRC" -> {"AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"ROIRC" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"; "PFECAT"}*/
/*"ROIRC" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "NNI"; "INT"; "LIST"}*/
/*"ROIRC" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"ROIRC" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"}*/
/*"ROIRC" -> {"ILIST"; "PI"; "BOOLEAN"; "INS"; "OINTDOM"; "CFCAT"; "REAL"}*/

"SDPOL" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SDPOL"]
"SDPOL" -> "DPOLCAT"
/*"SDPOL" -> {"POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"SDPOL" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"SDPOL" -> {"MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"SDPOL" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"SDPOL" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"SDPOL" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
/*"SDPOL" -> {"GCDDOM"; "PFECAT"; "UFD"; "DIFEXT"; "DIFRING"; "DVARCAT"}*/
/*"SDPOL" -> {"FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"; "DIVRING"; "ORDRING"}*/
/*"SDPOL" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "RADCAT"}*/
/*"SDPOL" -> {"INS"; "OINTDOM"; "CFCAT"; "STEP"; "UPOLYC"; "ELTAB"}*/

"SMATCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=SMATCAT"]
/*"SMATCAT" -> {"DIFEXT"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"SMATCAT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"SMATCAT" -> {"MONOID"; "LMODULE"; "DIFRING"; "PDRING"; "BMODULE"}*/
/*"SMATCAT" -> "RMODULE"*/
"SMATCAT" -> "RMCATCAT"
/*"SMATCAT" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "MODULE"}*/
/*"SMATCAT" -> {"COMRING"; "FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"}*/
/*"SMATCAT" -> {"ALGEBRA"; "DIRPCAT"; "IXAGG"; "ELTAGG"; "ELTAB"; "FINITE"}*/

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/*"SMATCAT" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"SMATCAT" -> {"OAMONS"; "VSPACE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"SMATCAT" -> {"INTDOM"; "ENTIRER"; "UFD"; "DIVRING"; "NNI"; "INT"}*/
/*"SMATCAT" -> {"VECTOR"; "IVECTOR"; "IARRAY1"; "INS"; "OINTDOM"; "KONVERT"}*/
/*"SMATCAT" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"; "VECTCAT"}*/
/*"SMATCAT" -> {"A1AGG"; "FLAGG"; "LNAGG"; "CLAGG"; "LSAGG"; "STAGG"}*/
/*"SMATCAT" -> {"URAGG"; "RCAGG"; "ELAGG"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"SMATCAT" -> {"VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"SMATCAT" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "INS-"}*/

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"SMATCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SMATCAT"]
/*"SMATCAT-" -> {"DIFEXT"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"SMATCAT-" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SMATCAT-" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "DIFRING"; "PDRING"}*/
/*"SMATCAT-" -> {"BMODULE"; "RMODULE"}*/
"SMATCAT-" -> "RSMATCAT"
/*"SMATCAT-" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "MODULE"}*/
/*"SMATCAT-" -> {"COMRING"; "FRETRACT"; "RETRACT"; "FLINEXP"; "LINEXP"}*/
/*"SMATCAT-" -> {"ALGEBRA"; "DIRPCAT"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"SMATCAT-" -> {"FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"SMATCAT-" -> {"OASGP"; "ORDSET"; "OAMONS"; "VSPACE"; "FIELD"}*/
/*"SMATCAT-" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "ENTIRER"}*/
/*"SMATCAT-" -> {"UFD"; "DIVRING"; "NNI"; "INT"; "VECTOR"; "IVECTOR"}*/
/*"SMATCAT-" -> {"IARRAY1"; "INS"; "OINTDOM"; "KONVERT"; "PATMAB"}*/
/*"SMATCAT-" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"; "VECTCAT"}*/
/*"SMATCAT-" -> {"A1AGG"; "FLAGG"; "LNAGG"; "CLAGG"; "LSAGG"; "STAGG"}*/
/*"SMATCAT-" -> {"URAGG"; "RCAGG"; "ELAGG"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"SMATCAT-" -> {"VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"}*/
/*"SMATCAT-" -> {"CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "INS-"}*/

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"TUBETOOL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=TUBETOOL"]
/*"TUBETOOL" -> {"FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"TUBETOOL" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"TUBETOOL" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"TUBETOOL" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"TUBETOOL" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"TUBETOOL" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"TUBETOOL" -> {"REAL"; "KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"}*/
/*"TUBETOOL" -> {"INS"; "OINTDOM"; "DIFRING"; "LINEXP"; "CFCAT"; "STEP"}*/
/*"TUBETOOL" -> {"OM"; "INT"; "DFLOAT"; "FPS-"; "RNS-"; "FIELD-"; "LIST"}*/
/*"TUBETOOL" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "DIVRING-"; "INTDOM-"}*/
/*"TUBETOOL" -> {"ALGEBRA-"; "DIFRING-"; "ORDRING-"; "MODULE-"}*/
"TUBETOOL" -> "FRAC"
/*"TUBETOOL" -> {"RING-"; "ABELGRP-"; "ABELMON-"; "SINT"; "PI"; "NNI"}*/
/*"TUBETOOL" -> {"ILIST"; "BOOLEAN"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"}*/
/*"TUBETOOL" -> "URAGG-*/

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"UPXSCCA" [color="#4488FF",href="bookvol10.2.pdf#nameddest=UPXSCCA"]
"UPXSCCA" -> "UPXSCAT"
/*"UPXSCCA" -> {"UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"; "ABELGRP"}*/

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/*"UPXSCCA" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"UPXSCCA" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"UPXSCCA" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"UPXSCCA" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
/*"UPXSCCA" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"UPXSCCA" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"}*/
/*"UPXSCCA" -> {"GCDDOM"; "UFD"; "DIVRING"; "RETRACT"; "ULSCAT"}*/

"UPXSCCA-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=UPXSCCA"]
"UPXSCCA-" -> "UPXSCAT"
/*"UPXSCCA-" -> {"UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"; "ABELGRP"}*/
/*"UPXSCCA-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"UPXSCCA-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"UPXSCCA-" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"UPXSCCA-" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
/*"UPXSCCA-" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"UPXSCCA-" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"}*/
/*"UPXSCCA-" -> {"GCDDOM"; "UFD"; "DIVRING"; "RETRACT"; "ULSCAT"}*/

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## Layer13

Depends on: DIAGG FRAMALG MDAGG SMATCAT UPXSCCA RFP  
 Used by next layer: FSAGG KDAGG MSETAGG MONOGEN

— layer13 —

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LAYER13=\
  ${OUT}/AFALGGRO.o ${OUT}/AFALGRES.o \
  ${OUT}/DPMM.o      ${OUT}/EFUPXS.o  ${OUT}/FFINTBAS.o ${OUT}/FRIDEAL.o \
  ${OUT}/FRIDEAL2.o  ${OUT}/FRMOD.o   ${OUT}/FSAGG.o    ${OUT}/FSAGG-.o \
  ${OUT}/IBATool.o   ${OUT}/INTFACT.o  ${OUT}/KDAGG.o    ${OUT}/KDAGG-.o \
  ${OUT}/MSETAGG.o   ${OUT}/MONOGEN.o  ${OUT}/MONOGEN-.o ${OUT}/NFINTBAS.o \
  layer13done

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— layerpic —

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/* layer 13 */
/* depends on: DIAGG FRAMALG MDAGG SMATCAT UPXSCCA RFP*/

"AFALGGRO" [color="#FF4488",href="bookvol10.4.pdf#nameddest=AFALGGRO"]
"AFALGGRO" -> "DIRPCAT"
"AFALGGRO" -> "PFECAT"

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/*"AFALGGRO" -> {"PRSPCAT"; "SETCATD"; "PACFFC"; "PACPERC"; "FIELD"}*/
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/*"AFALGGRO" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"AFALGGRO" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"AFALGGRO" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"AFALGGRO" -> {"UFD"; "DIVRING"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"AFALGGRO" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"AFALGGRO" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"AFALGGRO" -> {"PATMAB"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"}*/
/*"AFALGGRO" -> {"ELTAB"; "DIFEXT"; "DIFRING"; "FINITE"; "ORDRING"}*/
/*"AFALGGRO" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "OAMONS"; "VSPACE"}*/
/*"AFALGGRO" -> {"SINT"; "OUTFORM"; "INT"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"AFALGGRO" -> {"RCAGG"; "LNAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "LIST"}*/
/*"AFALGGRO" -> {"ILIST"; "NNI"; "FFIELDC"; "FPC"; "STEP"; "PI"; "VECTOR"}*/
/*"AFALGGRO" -> {"MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"; "ORDFIN"}*/
/*"AFALGGRO" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "INS-"}*/
/*"AFALGGRO" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"}*/

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/*"AFALGRES" -> {"PRSPCAT"; "LOCPOWC"; "SETCATD"; "PACFFC"; "CHARZ"}*/
/*"AFALGRES" -> {"PACPERC"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"AFALGRES" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"AFALGRES" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"AFALGRES" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"AFALGRES" -> {"UFD"; "DIVRING"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"AFALGRES" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"AFALGRES" -> {"LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"}*/
/*"AFALGRES" -> {"IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"; "ELTAB"}*/
/*"AFALGRES" -> {"DIFRING"; "FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"AFALGRES" -> {"OASGP"; "OAMONS"; "VSPACE"; "UPOLYC"; "STEP"; "NNI"; "INT"}*/
/*"AFALGRES" -> {"LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "FFIELDC"; "FPC"; "PI"}*/
/*"AFALGRES" -> {"VECTOR"; "OUTFORM"; "MONOID-"; "ABELMON-"; "ORDSET-"}*/
/*"AFALGRES" -> {"SGROUP-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"AFALGRES" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "ELAGG-"; "FLAGG-"}*/
/*"AFALGRES" -> {"INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "ENTIRER"; "FLINEXP"}*/
/*"AFALGRES" -> {"URAGG-"; "DIRPCAT"; "DIFEXT"; "OAMON"}*/

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/*"DPMM" -> {"FRETRCT"; "RETRACT"; "BMODULE"; "LMODULE"; "ABELGRP"}*/
/*"DPMM" -> {"CABMON"; "ABELMON"; "ABELSG"; "RMODULE"; "DIFEXT"; "RING"}*/
/*"DPMM" -> {"RNG"; "SGROUP"; "MONOID"; "DIFRING"; "PDRING"; "FLINEXP"}*/
/*"DPMM" -> {"LINEXP"; "FINITE"; "ALGEBRA"; "MODULE"; "COMRING"; "ORDRING"}*/
/*"DPMM" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "OAMONS"}*/
/*"DPMM" -> {"VSPACE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"DPMM" -> {"ENTIRER"; "UFD"; "DIVRING"}*/
"DPMM" -> "SMATCAT"
/*"DPMM" -> {"RMATCAT"; "SINT"; "PI"; "NNI"; "INT"; "INS"; "OINTDOM"}*/

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/*"DPMM" -> {"KONVERT"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/

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"EFUPXS" -> "UPXSCCA"
/*"EFUPXS" -> {"UPXSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"; "ABELGRP"}*/
/*"EFUPXS" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"EFUPXS" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"EFUPXS" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"EFUPXS" -> {"ENTIRER"; "ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"}*/
/*"EFUPXS" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "FIELD"}*/
/*"EFUPXS" -> {"EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"}*/
/*"EFUPXS" -> {"ULSCAT"; "NNI"; "INT"; "INS"; "OINTDOM"; "ORDRING"}*/
/*"EFUPXS" -> {"OAGROUP"; "OCAMON"; "OASGP"; "ORDSET"; "KONVERT"}*/
/*"EFUPXS" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "STEP"; "OM"; "PI"}*/
/*"EFUPXS" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"; "PRIMARR"}*/
/*"EFUPXS" -> {"A1AGG-"; "ISTRING"}*/

"FFINTBAS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=FFINTBAS"]
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/*"FFINTBAS" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"FFINTBAS" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"FFINTBAS" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"FFINTBAS" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"FFINTBAS" -> {"CHARNZ"; "FRETRACT"; "EVALAB"; "IEVALAB"}*/
/*"FFINTBAS" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
/*"FFINTBAS" -> {"PFECAT"; "UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
/*"FFINTBAS" -> {"FIELD"; "DIVRING"}*/
"FFINTBAS" -> "FRAMALG"
/*"FFINTBAS" -> {"FINRAGL"; "INT"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"FFINTBAS" -> {"IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"; "CLAGG"; "NNI"}*/

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/*"FRIDEAL" -> {"KOERCE"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"FRIDEAL" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"FRIDEAL" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FRIDEAL" -> {"ENTIRER"; "QFCAT"; "FIELD"; "UFD"; "DIVRING"; "RETRACT"}*/
/*"FRIDEAL" -> {"FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"}*/
/*"FRIDEAL" -> {"DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"; "PATAB"}*/
/*"FRIDEAL" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "STEP"; "ORDSET"}*/
/*"FRIDEAL" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FRIDEAL" -> {"REAL"; "CHARZ"; "CHARNZ"; "PFECAT"; "UPOLYC"; "POLYCAT"}*/
/*"FRIDEAL" -> {"FAMR"; "AMR"; "FRETRACT"}*/
"FRIDEAL" -> "FRAMALG"
/*"FRIDEAL" -> {"FINRAGL"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*"FRIDEAL" -> {"HOAGG"; "AGG"; "ELTAGG"; "CLAGG"; "INT"; "VECTOR"}*/
/*"FRIDEAL" -> {"IVECTOR"; "IARRAY1"; "VECTCAT-"; "A1AGG-"; "BOOLEAN"}*/
/*"FRIDEAL" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "ELAGG"; "OM"; "LIST"}*/
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/*"FRIDEAL" -> {"INS"; "CFCAT"; "STAGG-"; "ELAGG-"; "FLAGG-"; "LNAGG-"}*/
/*"FRIDEAL" -> {"FINITE"; "PI"}*/

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/*"FRIDEAL2" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"FRIDEAL2" -> {"ELTAB"; "EVALAB"; "IEVALAB"; "DIFEXT"; "DIFRING"}*/
/*"FRIDEAL2" -> {"PDRING"; "FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"}*/
/*"FRIDEAL2" -> {"FPATMAB"; "TYPE"; "PATMAB"; "STEP"; "ORDSET"; "OINTDOM"}*/
/*"FRIDEAL2" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
/*"FRIDEAL2" -> {"CHARZ"; "CHARNZ"; "PFECAT"; "UPOLYC"; "POLYCAT"; "FAMR"}*/
/*"FRIDEAL2" -> {"AMR"; "FRETRCT"}*/
"FRIDEAL2" -> "FRAMALG"
/*"FRIDEAL2" -> {"FINRALG"; "INS"; "CFCAT"; "OM"; "INT"; "VECTOR"; "IVECTOR"}*/
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/*"FRMOD" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"FRMOD" -> {"MONOID"; "LMODULE"; "MODULE"; "BMODULE"; "RMODULE"; "CHARZ"}*/
/*"FRMOD" -> {"CHARNZ"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
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/*"FRMOD" -> {"PDRING"; "FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"FRMOD" -> {"TYPE"; "PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"}*/
/*"FRMOD" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "PFECAT"}*/
/*"FRMOD" -> {"UPOLYC"; "POLYCAT"; "FAMR"; "AMR"; "FRETRCT"; "BOOLEAN"}*/
/*"FRMOD" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"FRMOD" -> {"AGG"; "ELTAGG"; "CLAGG"; "INT"; "VECTOR"; "IVECTOR"}*/
/*"FRMOD" -> {"IARRAY1"; "INS"; "CFCAT"; "OM"; "VECTCAT-"; "A1AGG-"; "NNI"}*/
/*"FRMOD" -> "PI"*/

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/*"FSAGG" -> {"SETAGG"; "FINITE"; "NNI"; "INT"; "BOOLEAN"; "SINT"; "PI"}*/
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/*"IBATool" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
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/*"IBATool" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "FIELD"}*/
/*"IBATool" -> "DIVRING"*/
"IBATool" -> "FRAMALG"
/*"IBATool" -> {"FINRALG"; "SINT"; "NNI"; "INT"; "PI"; "INS"; "OINTDOM"}*/
/*"IBATool" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "CFCAT"}*/
/*"IBATool" -> {"REAL"; "OM"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT"}*/
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/*"MONOGEN" -> {"FINRNLG"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
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/*"MONOGEN" -> {"ENTIRER"; "UFD"; "DIVRING"; "DIFEXT"; "DIFRING"; "PDRING"}*/
/*"MONOGEN" -> {"FFIELDC"; "FPC"; "STEP"; "UPOLYC"; "POLYCAT"; "FAMR"}*/
/*"MONOGEN" -> {"AMR"; "EVALAB"; "IEVALAB"; "ORDSET"; "PATMAB"; "PFECAT"}*/
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/*"MONOGEN-" -> {"PDRING"; "FFIELDC"; "FPC"; "STEP"; "UPOLYC"}*/
/*"MONOGEN-" -> {"POLYCAT"; "FAMR"; "AMR"; "EVALAB"; "IEVALAB"}*/
/*"MONOGEN-" -> {"ORDSET"; "PATMAB"; "PFECAT"; "ELTAB"; "NNI"; "INT"}*/
/*"MONOGEN-" -> {"SINT"; "MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"}*/
/*"MONOGEN-" -> {"PI"; "VECTOR"; "IVECTOR"; "IARRAY1"; "INS"; "OINTDOM"}*/
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/*"NFINTBAS" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"NFINTBAS" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRACT"}*/
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/*"NFINTBAS" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"; "PFECAT"; "UFD"}*/
/*"NFINTBAS" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"}*/
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/*"NFINTBAS" -> {"LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"}*/
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## Layer14

Depends on: FSAGG KDAGG MSETAGG MONOGEN

Used by next layer: TBAGG

— layer14 —

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LAYER14=\
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  ${OUT}/CCLASS.o  ${OUT}/CPIMA.o  ${OUT}/FSAGG2.o  ${OUT}/GALFACT.o \
  ${OUT}/IALGFACT.o ${OUT}/IBACHIN.o ${OUT}/MMLFORM.o ${OUT}/NORMMA.o \
  ${OUT}/ODERED.o  ${OUT}/OMSAGG.o  ${OUT}/PERM.o  ${OUT}/PERMGRP.o \
  ${OUT}/PRIMES.o  ${OUT}/PRJALGPK.o \
  ${OUT}/PWFFINTB.o ${OUT}/RDIST.o  ${OUT}/SAE.o      \
  ${OUT}/SAEFACT.o  ${OUT}/SAERFFC.o ${OUT}/SGCF.o  ${OUT}/SPACE3.o \
  ${OUT}/TBAGG.o    ${OUT}/TBAGG-.o  ${OUT}/VIEW3D.o  ${OUT}/WFFINTBS.o \
  layer14done

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— layerpic —

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/* layer 14 */
/* depends on: FSAGG KDAGG MSETAGG MONOGEN */

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/*"CHAR" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"CHAR" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"CHAR" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"; "PI"}*/
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/*"CHAR" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
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/*"CCLASS" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"MMLFORM" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
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/*"NORMMA" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
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/*"NORMMA" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"NORMMA" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"NORMMA" -> {"ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"; "UFD"; "ELTAB"}*/
/*"NORMMA" -> {"DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"; "PID"; "FIELD"}*/
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/*"PERM" -> {"OASGP"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
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/*"SGCF" -> {"FLAGG-"; "LNAGG-"; "IXAGG-"; "LSAGG"; "STAGG"; "URAGG"}*/
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/*"TBAGG" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"TBAGG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"}*/
/*"TBAGG" -> {"CLAGG"; "KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"TBAGG" -> {"BOOLEAN"; "NNI"; "INT"; "LIST"; "ILIST"}*/

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"TBAGG-" -> "KDAGG"
/*"TBAGG-" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"TBAGG-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"}*/
/*"TBAGG-" -> {"CLAGG"; "KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"TBAGG-" -> {"BOOLEAN"; "NNI"; "INT"; "LIST"; "ILIST"}*/

"VIEW3D" [color="#88FF44",href="bookvol10.3.pdf#nameddest=VIEW3D"]
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/*"VIEW3D" -> {"BOOLEAN"; "PI"; "FPS-"; "RNS-"; "FIELD-"; "EUCDOM-"; "UFD-"}*/
/*"VIEW3D" -> {"GCDDOM-"; "DIVRING-"; "INTDOM-"; "ALGEBRA-"; "DIFRING-"}*/
/*"VIEW3D" -> {"ORDRING-"; "MODULE-"; "FRAC"; "RING-"; "ABELGRP-"}*/
/*"VIEW3D" -> {"ABELMON-"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"}*/
/*"VIEW3D" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"VIEW3D" -> {"FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"VIEW3D" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"VIEW3D" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"VIEW3D" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "ORDRING"}*/
/*"VIEW3D" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"}*/
/*"VIEW3D" -> {"KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"}*/
/*"VIEW3D" -> "OM"*/
"VIEW3D" -> "FSAGG"
/*"VIEW3D" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"VIEW3D" -> {"IEVALAB"; "CLAGG"; "SETAGG"; "FINITE"; "LSAGG"; "STAGG"}*/
/*"VIEW3D" -> {"URAGG"; "RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
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/*"VIEW3D" -> {"RCAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"}*/
/*"VIEW3D" -> {"ELTAGG-"; "SETCAT-"; "BASTYPE-"; "INS"; "OINTDOM"}*/
/*"VIEW3D" -> {"LINEXP"; "CFCAT"; "STEP"; "SRAGG-"; "STRICAT"; "SRAGG"}*/
/*"VIEW3D" -> "A1AGG"*/

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/*"WFFINTBS" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/

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/*"WFFINTBS" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"WFFINTBS" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"WFFINTBS" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"}*/
/*"WFFINTBS" -> {"FINITE"; "STEP"; "DIFRING"; "UPOLYC"; "POLYCAT"; "PDRING"}*/
/*"WFFINTBS" -> {"FAMR"; "AMR"; "CHARZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"WFFINTBS" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"WFFINTBS" -> {"PATMAB"; "PFECAT"; "ELTAB"; "DIFEXT"; "FRAMALG"}*/
/*"WFFINTBS" -> {"FINRALG"; "INT"; "LIST"; "ILIST"; "SINT"; "PI"; "NNI"}*/
/*"WFFINTBS" -> {"VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT"; "A1AGG"}*/
/*"WFFINTBS" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"WFFINTBS" -> {"ELTAGG"; "CLAGG"}*/
"WFFINTBS" -> "MONOGEN"

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## Layer15

Depends on: TBAGG

Used by next layer: ALIST

— layer15 —

```

LAYER15=\
  ${OUT}/ALIST.o   ${OUT}/EQTBL.o   ${OUT}/GSTBL.o   ${OUT}/HASHTBL.o \
  ${OUT}/INTABL.o  ${OUT}/INTFTBL.o ${OUT}/INTPACK.o ${OUT}/IPF.o   \
  ${OUT}/KAFfile.o ${OUT}/PATRES.o  ${OUT}/PDEPACK.o ${OUT}/STBL.o   \
  ${OUT}/STRtbl.o  ${OUT}/TABLE.o   ${OUT}/TBCMPPK.o \
  layer15done

```

— layerpic —

```

/* layer 15 */
/* depends on: TBAGG */

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/*"ALAGG" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "CLAGG"}*/
/*"ALAGG" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "LSAGG"; "STAGG"}*/
/*"ALAGG" -> {"URAGG"; "RCAGG"; "LNAGG"; "FLAGG"; "ORDSET"; "ELAGG"}*/

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/*"ALIST" -> "ALAGG"*/

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"ALIST" -> "TBAGG"
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/*"ALIST" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "LSAGG"; "STAGG"}*/
/*"ALIST" -> {"URAGG"; "RCAGG"; "LNAGG"; "FLAGG"; "ORDSET"; "ELAGG"}*/
/*"ALIST" -> {"INT"; "LIST"; "ILIST"; "OM"; "INS"; "UFD"; "GCDDOM"}*/
/*"ALIST" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"ALIST" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"ALIST" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"ALIST" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"ALIST" -> {"DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"ALIST" -> {"CHARZ"; "STEP"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"}*/
/*"ALIST" -> {"URAGG-"; "LNAGG-"; "BOOLEAN"; "STRING"; "CHAR"; "SINT"}*/
/*"ALIST" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/

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/*"EQTBL" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "ORDSET"}*/

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/*"FFIELDC" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FFIELDC" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FFIELDC" -> {"ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"; "FINITE"; "STEP"}*/
/*"FFIELDC" -> {"DIFRING"; "PI"; "NNI"; "INT"; "LIST"; "ILIST"; "VECTCAT"}*/
/*"FFIELDC" -> {"A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"FFIELDC" -> {"EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"FFIELDC" -> {"ORDSET"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT-"}*/
/*"FFIELDC" -> {"A1AGG-"; "BOOLEAN"; "SINT"; "OAMONS"; "OCAMON"; "OAMON"}*/
/*"FFIELDC" -> "OASGP"*/
"FFIELDC" -> "TBAGG"
/*"FFIELDC" -> {"KDAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "INS-"; "INS"; "OINTDOM"}*/
/*"FFIELDC" -> {"ORDRING"; "OAGROUP"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"FFIELDC" -> {"REAL"; "CHARZ"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"}*/
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/*"FFIELDC-" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"FFIELDC-" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"FFIELDC-" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"FFIELDC-" -> {"CHARNZ"; "FINITE"; "STEP"; "DIFRING"; "PI"; "NNI"}*/
/*"FFIELDC-" -> {"INT"; "LIST"; "ILIST"; "VECTCAT"; "A1AGG"; "FLAGG"}*/
/*"FFIELDC-" -> {"LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/

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/*"FFIELDC-" -> {"IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"FFIELDC-" -> {"ORDSET"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT"}*/
/*"FFIELDC-" -> {"A1AGG-"; "BOOLEAN"; "SINT"; "OAMONS"; "OCAMON"}*/
/*"FFIELDC-" -> {"OAMON"; "OASGP"}*/
"FFIELDC-" -> "TBAGG"
/*"FFIELDC-" -> {"KDAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "INS-"; "INS"}*/
/*"FFIELDC-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "RETRACT"; "LINEXP"}*/
/*"FFIELDC-" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "UPOLYC"}*/
/*"FFIELDC-" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "FRETRACT"}*/
/*"FFIELDC-" -> {"FLINEXP"; "PFECAT"; "DIFEXT"}*/

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/*"GSTBL" -> {"ELTAB"; "ORDSET"}*/

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/*"HASHTBL" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "CLAGG"}*/
/*"HASHTBL" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "ORDSET"}*/

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/*"INTPACK" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
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/*"INTPACK" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"INTPACK" -> {"ENTIRER"; "UFD"; "DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"INTPACK" -> {"OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
/*"INTPACK" -> {"RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"; "OM"; "TRANFUN"}*/
/*"INTPACK" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "LSAGG"}*/
/*"INTPACK" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"INTPACK" -> {"IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"INTPACK" -> {"FLAGG"; "ELAGG"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "DFLOAT"}*/
/*"INTPACK" -> {"SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"; "SINT"}*/
/*"INTPACK" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/

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/*"INTPACK" -> {"MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"; "ABELSG-"}*/
/*"INTPACK" -> {"SETCAT-"; "BASTYPE-"; "STRICAT"; "SRAGG"; "A1AGG"}*/
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/*"IPF" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"IPF" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"IPF" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"IPF" -> {"ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"; "FINITE"; "STEP"}*/
/*"IPF" -> {"DIFRING"; "FAXF"; "XF"; "RETRACT"; "VSPACE"; "CHARZ"; "KONVERT"}*/
/*"IPF" -> {"PI"; "NNI"; "INT"; "LIST"; "BOOLEAN"; "OAMONS"; "OCAMON"}*/
/*"IPF" -> {"OAMON"; "OASGP"; "ORDSET"}*/
"IPF" -> "TBAGG"
/*"IPF" -> {"KDAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"IPF" -> {"EVALAB"; "IEVALAB"; "CLAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "SINT"}*/
/*"IPF" -> {"INS-"; "ILIST"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"IPF" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "VECTOR"; "IVECTOR"}*/
/*"IPF" -> {"IARRAY1"; "VECTCAT-"; "A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"}*/
/*"IPF" -> {"CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
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/*"KAFILE" -> {"EVALAB"; "IEVALAB"; "CLAGG"; "KONVERT"; "IXAGG"; "ELTAGG"}*/
/*"KAFILE" -> {"ELTAB"; "FNCCAT"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"KAFILE" -> {"LIST"; "INT"; "PRIMARR"; "A1AGG-"; "ISTRING"; "LSAGG"}*/
/*"KAFILE" -> {"STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "FLAGG"; "ORDSET"}*/
/*"KAFILE" -> {"ELAGG"; "OM"; "ILIST"; "LSAGG-"; "STAGG-"; "STRICAT"}*/
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/*"PATRES" -> {"ELTAB"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
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"PDEPACK" -> "TBAGG"
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/*"PDEPACK" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "CLAGG"}*/

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/*"PDEPACK" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"PDEPACK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"PDEPACK" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"PDEPACK" -> {"REAL"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"}*/
/*"PDEPACK" -> {"OM"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"}*/
/*"PDEPACK" -> "ELEMFUN"*/

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/*"STBL" -> {"ELTAB"; "ORDSET"}*/

"STRTBL" [color="#88FF44",href="bookvol10.3.pdf#nameddest=STRTBL"]
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/*"STRTBL" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "STRICAT"; "SRAGG"}*/
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/*"TABLE" -> {"KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"; "ALAGG"; "LSAGG"}*/
/*"TABLE" -> {"STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "FLAGG"; "ORDSET"}*/
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/*"TBCMPPK" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"; "PRIMARR"}*/
/*"TBCMPPK" -> {"A1AGG-"; "ISTRING"}*/
"TBCMPPK" -> "TBAGG"
/*"TBCMPPK" -> {"KDAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"TBCMPPK" -> {"EVALAB"; "IEVALAB"; "CLAGG"; "KONVERT"; "IXAGG"; "ELTAGG"}*/
/*"TBCMPPK" -> "ELTAB"*/

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## Layer16

Depends on: ALIST

Used by next layer: ACF COMPCAT FFCAT FRNAALG FS OC QUATCAT RPOLCAT

UTSCAT

— layer16 —

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LAYER16=\
${OUT}/ACF.o      ${OUT}/ACF-.o      ${OUT}/ACPLOT.o    ${OUT}/ANTISYM.o  \
${OUT}/ANY.o      ${OUT}/ASP12.o     ${OUT}/ASP27.o     ${OUT}/ASP28.o    \
${OUT}/ASP30.o    ${OUT}/ASP33.o     ${OUT}/ASP49.o     ${OUT}/ASP55.o    \
${OUT}/ASP7.o     ${OUT}/ASP78.o     ${OUT}/ASP8.o      ${OUT}/ASP9.o     \
${OUT}/ATTRBUT.o  ${OUT}/BLUPPACK.o \
${OUT}/BOP.o      ${OUT}/BOP1.o      ${OUT}/COMMONOP.o \
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${OUT}/FS-.o      ${OUT}/FST.o      ${OUT}/FUNCTION.o  ${OUT}/GDMP.o      \
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— layerpic —

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/* layer 16 */
/* depends on: ALIST */

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/*"ASP9" -> {"FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
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/*"ASP9" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"ASP9" -> {"DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"ASP9" -> {"ORDSET"; "REAL"; "KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"}*/
/*"ASP9" -> {"CHARZ"; "FMTC"; "INS"; "OINTDOM"; "DIFRING"; "LINEXP"}*/
/*"ASP9" -> {"CFCAT"; "STEP"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"}*/
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/*"ATTRBUT" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"}*/
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/*"EP" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "UPOLYC"; "VECTOR"; "IVECTOR"}*/
/*"EP" -> "IARRAY1"*/

/* Note that ES has a circular self reference */
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      shape=ellipse]
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/*"ES" -> {"IEVALAB"; "EVALAB"; "CACHSET"; "SYMBOL"; "INT"; "REF"}*/
"ES" -> "ALIST"
/*"ES" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"ES" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "BOOLEAN"; "FSAGG"}*/
/*"ES" -> {"DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"; "CLAGG"}*/
/*"ES" -> {"KONVERT"; "SETAGG"; "FINITE"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"ES" -> {"RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"}*/
/*"ES" -> {"OM"; "PATAB"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"; "NNI"}*/
/*"ES" -> {"PATMAB"; "URAGG-"}*/

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"ES-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ES",
      shape=ellipse]
/*"ES-" -> {"ES"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"}*/
/*"ES-" -> {"IEVALAB"; "EVALAB"; "CACHSET"; "SYMBOL"; "INT"; "REF"}*/
"ES-" -> "ALIST"
/*"ES-" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"ES-" -> {"A1AGG"; "ISTRING"; "SRAGG"; "FLAGG"; "LNAGG"; "BOOLEAN"}*/
/*"ES-" -> {"FSAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"ES-" -> {"CLAGG"; "KONVERT"; "SETAGG"; "FINITE"; "LSAGG"; "STAGG"}*/
/*"ES-" -> {"URAGG"; "RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"ES-" -> {"FLAGG"; "ELAGG"; "OM"; "PATAB"; "ILIST"; "LSAGG"}*/
/*"ES-" -> {"STAGG"; "ELAGG"; "NNI"; "PATMAB"; "URAGG"}*/

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/*"E04AGNT" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"E04AGNT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"E04AGNT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"E04AGNT" -> {"ENTIRER"; "UFD"; "DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"E04AGNT" -> {"OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
/*"E04AGNT" -> {"RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"; "OM"; "TRANFUN"}*/
/*"E04AGNT" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "SPFCAT"}*/
/*"E04AGNT" -> {"DFLOAT"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"E04AGNT" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"}*/
/*"E04AGNT" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "INT"; "LIST"}*/
/*"E04AGNT" -> {"ILIST"; "SINT"; "NNI"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"E04AGNT" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "INS"}*/
/*"E04AGNT" -> {"OINTDOM"; "LINEXP"; "CFCAT"; "STEP"; "QFCAT"; "FEVALAB"}*/
/*"E04AGNT" -> {"DIFEXT"; "PDRING"; "FLINEXP"; "PATAB"; "FPATMAB"}*/
/*"E04AGNT" -> {"CHARNZ"; "PFECAT"; "BOOLEAN"; "SYMBOL"; "REF"}*/
"E04AGNT" -> "ALIST"
/*"E04AGNT" -> {"STRING"; "CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
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/*"FCPAK1" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"FCPAK1" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"FCPAK1" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"FCPAK1" -> {"EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"FCPAK1" -> {"OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"}*/
/*"FCPAK1" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "OM"}*/
/*"FCPAK1" -> {"SYMBOL"; "INT"; "REF"}*/
"FCPAK1" -> "ALIST"
/*"FCPAK1" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
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"FEXPR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FEXPR"]
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/*"FEXPR" -> {"IEVALAB"; "EVALAB"; "ALGEBRA"; "RING"; "RNG"; "ABELGRP"}*/
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/*"FEXPR" -> {"MODULE"; "BMODULE"; "RMODULE"; "PDRING"; "FMTC"; "INTDOM"}*/
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/*"FEXPR" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
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/*"FEXPR" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "LNAGG"}*/
/*"FEXPR" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"FEXPR" -> {"ELAGG"; "OM"; "ILIST"; "NNI"; "PATMAB"; "INS"; "UFD"}*/
/*"FEXPR" -> {"GCDDOM"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"FEXPR" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "LINEXP"; "CFCAT"}*/
/*"FEXPR" -> {"REAL"; "CHARZ"; "STEP"; "POLYCAT"; "FAMR"; "AMR"; "CHARNZ"}*/
/*"FEXPR" -> {"FRETRCT"; "FLINEXP"; "PFECAT"; "FPS"; "RNS"; "FIELD"}*/
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/*"FFCAT" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"}*/
/*"FFCAT" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"FFCAT" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"}*/
/*"FFCAT" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"FFCAT" -> {"PATMAB"; "GCDDOM"; "PFECAT"; "UFD"; "ELTAB"; "DIFRING"}*/
/*"FFCAT" -> {"DIFEXT"; "STEP"; "EUCDOM"; "PID"; "FIELD"; "DIVRING"}*/
/*"FFCAT" -> {"QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "OINTDOM"}*/
/*"FFCAT" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
/*"FFCAT" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "FFIELDC"; "FPC"}*/
/*"FFCAT" -> {"INT"; "BOOLEAN"; "NNI"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"FFCAT" -> {"IXAGG"; "HOAGG"; "AGG"; "ELTAGG"; "CLAGG"; "SINT"; "VECTOR"}*/
/*"FFCAT" -> {"IVECTOR"; "IARRAY1"; "SYMBOL"; "REF"}*/
"FFCAT" -> "ALIST"
/*"FFCAT" -> {"LIST"; "STRING"; "CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
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"FFCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FFCAT"]
/*"FFCAT-" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "RING"; "RNG"}*/
/*"FFCAT-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"FFCAT-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"FFCAT-" -> {"FAMR"; "AMR"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"FFCAT-" -> {"ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"FFCAT-" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"FFCAT-" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"}*/
/*"FFCAT-" -> {"GCDDOM"; "PFECAT"; "UFD"; "ELTAB"; "DIFRING"; "DIFEXT"}*/
/*"FFCAT-" -> {"STEP"; "EUCDOM"; "PID"; "FIELD"; "DIVRING"; "QFCAT"}*/
/*"FFCAT-" -> {"FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "OINTDOM"}*/
/*"FFCAT-" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"FFCAT-" -> {"REAL"; "MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"}*/
/*"FFCAT-" -> {"FFIELDC"; "FPC"; "INT"; "BOOLEAN"; "NNI"; "VECTCAT"}*/

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/*"FFCAT-" -> {"A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"}*/
/*"FFCAT-" -> {"ELTAGG"; "CLAGG"; "SINT"; "VECTOR"; "IVECTOR"}*/
/*"FFCAT-" -> {"IARRAY1"; "SYMBOL"; "REF"}*/
"FFCAT-" -> "ALIST"
/*"FFCAT-" -> {"LIST"; "STRING"; "CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"FFCAT-" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"}*/
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/*"FFCGP" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FFCGP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FFCGP" -> {"ENTIRER"; "UFD"; "DIVRING"; "RETRACT"; "VSPACE"; "CHARZ"}*/
/*"FFCGP" -> {"FPC"; "CHARNZ"; "FINITE"; "FFIELDC"; "STEP"; "DIFRING"}*/
/*"FFCGP" -> {"NNI"; "INT"; "MONOID-"; "ABELMON-"; "ORDSET-"; "SGROUP-"}*/
/*"FFCGP" -> {"PI"; "SINT"; "PRIMARR"; "SYMBOL"; "REF"}*/
"FFCGP" -> "ALIST"
/*"FFCGP" -> {"LIST"; "STRING"; "CHAR"; "OUTFORM"; "A1AGG-"; "ISTRING"}*/
/*"FFCGP" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "BOOLEAN"; "OAMONS"; "OCAMON"}*/
/*"FFCGP" -> {"OAMON"; "OASGP"; "ORDSET"; "VECTOR"; "IVECTOR"; "IARRAY1"}*/
/*"FFCGP" -> {"INS-"; "EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"; "ALGEBRA-"}*/
/*"FFCGP" -> {"DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"}*/
/*"FFCGP" -> {"ILIST"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "KONVERT"}*/
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"FFNBP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=FFNBP"]
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/*"FFNBP" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"FFNBP" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FFNBP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FFNBP" -> {"ENTIRER"; "UFD"; "DIVRING"; "RETRACT"; "VSPACE"; "CHARZ"}*/
/*"FFNBP" -> {"FPC"; "CHARNZ"; "FINITE"; "FFIELDC"; "STEP"; "DIFRING"}*/
/*"FFNBP" -> {"SYMBOL"; "INT"; "REF"}*/
"FFNBP" -> "ALIST"
/*"FFNBP" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"FFNBP" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "BOOLEAN"}*/
/*"FFNBP" -> {"PI"; "NNI"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT"}*/
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/*"FFNBP" -> {"EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"FFNBP" -> {"ORDSET"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "TBAGG"}*/
/*"FFNBP" -> {"KDAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "VECTCAT-"; "UPOLYC"}*/
/*"FFNBP" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "FRETRCT"; "FLINEXP"}*/
/*"FFNBP" -> {"LINEXP"; "PATMAB"; "PFECAT"; "DIFEXT"; "LSAGG"; "STAGG"}*/
/*"FFNBP" -> {"URAGG"; "RCAGG"; "ELAGG"; "OM"; "ILIST"; "LSAGG-"; "MONOID-"}*/
/*"FFNBP" -> {"ABELMON-"; "ORDSET-"; "SGROUP-"; "INS-"; "INS"; "OINTDOM"}*/
/*"FFNBP" -> {"ORDRING"; "OAGROUP"; "CFCAT"; "REAL"; "IXAGG-"; "CLAGG-"}*/
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"FFP" -> "ALIST"
/*"FFP" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
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/*"FFP" -> {"IEVALAB"; "CLAGG"; "KONVERT"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"FFP" -> {"VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT-"; "IXAGG-"; "CLAGG-"}*/
/*"FFP" -> {"HOAGG-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"; "ILIST"}*/
/*"FFP" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "INS-"; "INS"; "OINTDOM"}*/
/*"FFP" -> {"ORDRING"; "OAGROUP"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/

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/*"FLOAT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FLOAT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FLOAT" -> {"ENTIRER"; "UFD"; "DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"FLOAT" -> {"OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"; "RETRACT"}*/
/*"FLOAT" -> {"RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"; "OM"; "TRANFUN"}*/
/*"FLOAT" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "INT"; "INS-"}*/
/*"FLOAT" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"; "ALGEBRA-"}*/
/*"FLOAT" -> {"DIFRING-"; "ORDRING-"; "PI"; "NNI"; "MODULE-"; "RING-"}*/
/*"FLOAT" -> {"ABELGRP-"; "ABELMON-"; "SINT"; "BOOLEAN"; "MONOID-"}*/
/*"FLOAT" -> {"ABELSG-"; "SGROUP-"; "ORDSET-"; "INS"; "OINTDOM"; "LINEXP"}*/
/*"FLOAT" -> {"CFCAT"; "STEP"; "STRICAT"; "SRAGG"; "A1AGG"; "FLAGG"}*/
/*"FLOAT" -> {"LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"FLOAT" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "STRING"; "CHAR"; "OUTFORM"}*/
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/*"FPARFRAC" -> {"POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"FPARFRAC" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"FPARFRAC" -> {"FAMR"; "AMR"; "BMODULE"; "RMODULE"; "COMRING"}*/
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/*"FPARFRAC" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"FPARFRAC" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "PATMAB"; "GCDDOM"}*/
/*"FPARFRAC" -> {"PFECAT"; "UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
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/*"FPARFRAC" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "NNI"}*/
/*"FPARFRAC" -> {"QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "OINTDOM"}*/
/*"FPARFRAC" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
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/*"FR" -> {"ENTIRER"; "DIFEXT"; "DIFRING"; "PDRING"; "FEVALAB"; "ELTAB"}*/
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/*"FR" -> {"KONVERT"; "UFD"; "INT"; "LIST"; "ILIST"; "SYMBOL"; "REF"}*/
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/*"FR" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"FR" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ORDSET"; "BOOLEAN"}*/
/*"FR" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"FR" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"}*/
/*"FR" -> {"NNI"; "INS"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"FR" -> {"OCAMON"; "OAMON"; "OASGP"; "LINEXP"; "PATMAB"; "CFCAT"; "CHARZ"}*/
/*"FR" -> {"STEP"; "DFLOAT"; "LSAGG-"; "STAGG-"; "INS-"; "EUCDOM-"; "UFD-"}*/
/*"FR" -> {"GCDDOM-"; "INTDOM-"; "ALGEBRA-"; "DIFRING-"; "ORDRING-"}*/
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/*"FRNAALG" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"FRNAALG" -> {"MONAD"; "MODULE"; "BMODULE"; "LMODULE"; "RMODULE"}*/
/*"FRNAALG" -> {"COMRING"; "RING"; "RNG"; "SGROUP"; "MONOID"; "FIELD"}*/
/*"FRNAALG" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "ALGEBRA"; "ENTIRER"}*/
/*"FRNAALG" -> {"UFD"; "DIVRING"; "SINT"; "PI"; "NNI"; "INT"; "STRING"}*/
/*"FRNAALG" -> {"CHAR"; "OUTFORM"; "LIST"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"FRNAALG" -> {"SYMBOL"; "REF"}*/
"FRNAALG" -> "ALIST"
/*"FRNAALG" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "POLYCAT"; "PDRING"; "FAMR"}*/
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/*"FRNAALG" -> {"PATMAB"; "PFECAT"; "VECTOR"; "IVECTOR"; "IARRAY1"}*/
/*"FRNAALG" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"}*/
/*"FRNAALG" -> {"AGG"; "TYPE"; "ELTAGG"; "ELTAB"; "CLAGG"; "VECTCAT-"}*/
/*"FRNAALG" -> {"ILIST"; "MONOID-"; "ABELSG-"; "SGROUP-"; "INS"; "OINTDOM"}*/
/*"FRNAALG" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
/*"FRNAALG" -> {"CFCAT"; "REAL"; "STEP"; "OM"}*/

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/*"FRNAALG-" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"FRNAALG-" -> {"MONAD"; "MODULE"; "BMODULE"; "LMODULE"; "RMODULE"}*/

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/*"FRNAALG-" -> {"ENTIRER"; "UFD"; "DIVRING"; "SINT"; "PI"; "NNI"}*/
/*"FRNAALG-" -> {"INT"; "STRING"; "CHAR"; "OUTFORM"; "LIST"; "PRIMARR"}*/
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/*"FRNAALG-" -> {"KONVERT"; "PATMAB"; "PFECAT"; "VECTOR"; "IVECTOR"}*/
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/*"FRNAALG-" -> {"IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"; "ELTAB"}*/
/*"FRNAALG-" -> {"CLAGG"; "VECTCAT-"; "ILIST"; "MONOID-"; "ABELSG-"}*/
/*"FRNAALG-" -> {"SGROUP-"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
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/*"GDMP" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
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/*"GDMP" -> {"UFD"; "DIRPCAT"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"}*/
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/*"IR" -> {"REAL"; "CHARZ"; "STEP"; "QFCAT"; "FIELD"; "DIVRING"}*/
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/*"KERNEL" -> {"ELAGG"; "OM"; "ILIST"; "SYMBOL"; "REF"}*/
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/*"PATTERN" -> {"ELTAGG-"; "SETCAT-"; "BASTYPE-"; "PATMAB"; "MONOID"}*/
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/*"PLCS" -> {"EUCDOM"; "PID"; "GCDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"PLCS" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"PLCS" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"PLCS" -> {"UFD"; "DIVRING"}*/
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/*"PLCS" -> {"UPSCAT"; "PSCAT"; "AMR"; "CHARZ"; "CHARNZ"; "ELTAB"; "DIFRING"}*/
/*"PLCS" -> {"PDRING"; "SYMBOL"; "INT"; "REF"; "LOCPWC"; "LIST"; "STRING"}*/
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/*"PMKERNEL" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
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/*"POLY" -> {"MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"POLY" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"POLY" -> {"ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
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/*"POLY" -> {"PFECAT"; "UFD"; "SYMBOL"; "INT"; "REF"}*/
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/*"PRIMELT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"QALGSET2" -> {"VSPACE"; "ORDFIN"; "POLYCAT"; "FAMR"; "AMR"; "LSAGG"}*/
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"RPOLCAT" -> "ALIST"
/*"RPOLCAT" -> {"SRAGG-"; "LNAGG-"; "STRICAT"; "SRAGG"; "A1AGG"}*/
/*"RPOLCAT" -> {"FPS"; "RNS"; "RADCAT"}*/

"RPOLCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=RPOLCAT"]
/*"RPOLCAT-" -> {"POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"RPOLCAT-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"RPOLCAT-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "FAMR"}*/
/*"RPOLCAT-" -> {"AMR"; "BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"}*/
/*"RPOLCAT-" -> {"MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"RPOLCAT-" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"RPOLCAT-" -> {"LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
/*"RPOLCAT-" -> {"PFECAT"; "UFD"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"RPOLCAT-" -> {"NNI"; "INT"; "LIST"; "BOOLEAN"; "ILIST"; "EUCDOM"}*/
/*"RPOLCAT-" -> {"PID"; "FIELD"; "DIVRING"; "FINITE"; "SINT"; "OM"}*/
/*"RPOLCAT-" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "INS"}*/
/*"RPOLCAT-" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "DIFRING"; "CFCAT"}*/
/*"RPOLCAT-" -> {"REAL"; "STEP"; "QFCAT"; "FEVALAB"; "ELTAB"; "DIFEXT"}*/
/*"RPOLCAT-" -> {"PATAB"; "FPATMAB"; "TYPE"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"RPOLCAT-" -> {"RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"RPOLCAT-" -> {"CLAGG"; "FLAGG"; "ELAGG"; "STRING"; "CHAR"; "OUTFORM"}*/
/*"RPOLCAT-" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SYMBOL"; "REF"}*/
"RPOLCAT-" -> "ALIST"
/*"RPOLCAT-" -> {"SRAGG-"; "LNAGG-"; "STRICAT"; "SRAGG"; "A1AGG"}*/
/*"RPOLCAT-" -> {"FPS"; "RNS"; "RADCAT"}*/

"RULECOLD" [color="#88FF44",href="bookvol10.3.pdf#nameddest=RULECOLD"]
/*"RULECOLD" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SYMBOL"; "INT"; "REF"}*/
"RULECOLD" -> "ALIST"
/*"RULECOLD" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/

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/*"RULECOLD" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/
/*"RULECOLD" -> "BOOLEAN"*/

"SAOS" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SAOS"]
/*"SAOS" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "BOOLEAN"; "SYMBOL"}*/
/*"SAOS" -> {"INT"; "REF"}*/
"SAOS" -> "ALIST"
/*"SAOS" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SAOS" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/

"SEGBIND" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SEGBIND"]
/*"SEGBIND" -> {"TYPE"; "SETCAT"; "BASTYPE"; "KOERCE"; "SYMBOL"; "INT"}*/
/*"SEGBIND" -> "REF"*/
"SEGBIND" -> "ALIST"
/*"SEGBIND" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SEGBIND" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/
/*"SEGBIND" -> "BOOLEAN"*/

"SET" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SET"]
/*"SET" -> {"FSAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"SET" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "EVALAB"; "IEVALAB"; "CLAGG"}*/
/*"SET" -> {"KONVERT"; "SETAGG"; "FINITE"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"SET" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "ORDSET"; "ELAGG"; "INS"; "UFD"}*/
/*"SET" -> {"GCCDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SET" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"SET" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"}*/
/*"SET" -> {"PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"SET" -> {"OASGP"; "DIFRING"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"SET" -> {"REAL"; "CHARZ"; "STEP"; "OM"; "SYMBOL"; "INT"; "REF"}*/
"SET" -> "ALIST"
/*"SET" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SET" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG"}*/
/*"SET" -> {"STAGG"; "URAGG"; "RCAGG"; "ILIST"; "NNI"; "BOOLEAN"}*/

"SPECOUT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SPECOUT"]
/*"SPECOUT" -> {"SYMBOL"; "INT"; "REF"}*/
"SPECOUT" -> "ALIST"
/*"SPECOUT" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SPECOUT" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/

"SQMATRIX" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SQMATRIX"]
/*"SQMATRIX" -> {"SMATCAT"; "DIFEXT"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"SQMATRIX" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SQMATRIX" -> {"SGROUP"; "MONOID"; "LMODULE"; "DIFRING"; "PDRING"}*/
/*"SQMATRIX" -> {"BMODULE"; "RMODULE"; "RMATCAT"; "HOAGG"; "AGG"; "TYPE"}*/
/*"SQMATRIX" -> {"EVALAB"; "IEVALAB"; "MODULE"; "COMRING"; "FRETRCT"}*/
/*"SQMATRIX" -> {"RETRACT"; "FLINEXP"; "LINEXP"; "ALGEBRA"; "KONVERT"}*/
/*"SQMATRIX" -> {"NNI"; "INT"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"SQMATRIX" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"}*/
/*"SQMATRIX" -> {"ORDSET"; "ELAGG"; "OM"; "LIST"; "ILIST"; "EUCDOM"}*/

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/*"SQMATRIX" -> {"PID"; "GCDDOM"; "INTDOM"; "ENTIRER"; "FIELD"; "UFD"}*/
/*"SQMATRIX" -> {"DIVRING"; "SYMBOL"; "REF"}*/
"SQMATRIX" -> "ALIST"
/*"SQMATRIX" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SQMATRIX" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "INS"; "OINTDOM"}*/
/*"SQMATRIX" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "PATMAB"}*/
/*"SQMATRIX" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/

"SWITCH" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SWITCH"]
/*"SWITCH" -> {"KOERCE"; "INT"; "LIST"; "ILIST"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"SWITCH" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "SETCAT"; "BASTYPE"}*/
/*"SWITCH" -> {"EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"SWITCH" -> {"CLAGG"; "KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"; "OM"; "INS"}*/
/*"SWITCH" -> {"UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"SWITCH" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"SWITCH" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"SWITCH" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"SWITCH" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "RETRACT"; "LINEXP"}*/
/*"SWITCH" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "NNI"}*/
/*"SWITCH" -> {"SYMBOL"; "REF"}*/
"SWITCH" -> "ALIST"
/*"SWITCH" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SWITCH" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/

"SYMS" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SYMS"]
/*"SYMS" -> {"KOERCE"; "ORDSET"; "SETCAT"; "BASTYPE"; "SYMBOL"; "INT"; "REF"}*/
"SYMS" -> "ALIST"
/*"SYMS" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SYMS" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"}*/

"SYMTAB" [color="#88FF44",href="bookvol10.3.pdf#nameddest=SYMTAB"]
/*"SYMTAB" -> {"KOERCE"; "ORDSET"; "SETCAT"; "BASTYPE"; "INS"; "UFD"}*/
/*"SYMTAB" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SYMTAB" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"SYMTAB" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"SYMTAB" -> {"EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"SYMTAB" -> {"OAMON"; "OASGP"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"}*/
/*"SYMTAB" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "INT"; "LIST"}*/
/*"SYMTAB" -> {"ILIST"; "OM"; "SYMBOL"; "REF"}*/
"SYMTAB" -> "ALIST"
/*"SYMTAB" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SYMTAB" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG-"; "STAGG-"}*/
/*"SYMTAB" -> {"ELAGG-"; "URAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"}*/
/*"SYMTAB" -> {"ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/

"SYSSOLP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SYSSOLP"]
/*"SYSSOLP" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"SYSSOLP" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SYSSOLP" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SYSSOLP" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "POLYCAT"; "PDRING"}*/

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/*"SYSSOLP" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRACT"; "RETRACT"}*/
/*"SYSSOLP" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"SYSSOLP" -> {"KONVERT"; "PATMAB"; "GCDDOM"; "PFECAT"; "UFD"; "QFCAT"}*/
/*"SYSSOLP" -> {"FIELD"; "EUCDOM"; "PID"; "DIVRING"; "FEVALAB"; "ELTAB"}*/
/*"SYSSOLP" -> {"DIFEXT"; "DIFRING"; "PATAB"; "FPATMAB"; "TYPE"; "STEP"}*/
/*"SYSSOLP" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"SYSSOLP" -> {"OASGP"; "REAL"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"SYSSOLP" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LSAGG"; "STAGG"}*/
/*"SYSSOLP" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"}*/
/*"SYSSOLP" -> {"ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "NNI"; "SYMBOL"; "REF"}*/
"SYSSOLP" -> "ALIST"
/*"SYSSOLP" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SYSSOLP" -> {"ISTRING"; "SRAGG-"; "LNAGG-"; "BOOLEAN"; "DIRPCAT"}*/
/*"SYSSOLP" -> {"OAMONS"; "OAMONS"; "VSPACE"; "ORDFIN"; "VECTOR"; "IVECTOR"}*/
/*"SYSSOLP" -> {"IARRAY1"; "VECTCAT-"; "VECTCAT"; "A1AGG"}*/

"UTSCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=UTSCAT"]
/*"UTSCAT" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "SETCAT"}*/
/*"UTSCAT" -> {"BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"UTSCAT" -> {"UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"; "ABELGRP"; "SGROUP"}*/
/*"UTSCAT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"UTSCAT" -> {"ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"UTSCAT" -> {"ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"UTSCAT" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "BOOLEAN"; "INT"}*/
/*"UTSCAT" -> {"SYMBOL"; "REF"}*/
"UTSCAT" -> "ALIST"
/*"UTSCAT" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"UTSCAT" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"}*/
/*"UTSCAT" -> {"NNI"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
/*"UTSCAT" -> {"TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"UTSCAT" -> {"CLAGG"; "KONVERT"; "FLAGG"; "ELAGG"; "OM"; "LSAGG-"}*/
/*"UTSCAT" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"}*/
/*"UTSCAT" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "RETRACT"; "LINEXP"}*/
/*"UTSCAT" -> {"PATMAB"; "CFCAT"; "REAL"; "STEP"}*/

"UTSCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=UTSCAT"]
/*"UTSCAT-" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"UTSCAT-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"}*/
/*"UTSCAT-" -> {"CABMON"; "UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"}*/
/*"UTSCAT-" -> {"ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"UTSCAT-" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"}*/
/*"UTSCAT-" -> {"CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
/*"UTSCAT-" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"UTSCAT-" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "BOOLEAN"; "INT"}*/
/*"UTSCAT-" -> {"SYMBOL"; "REF"}*/
"UTSCAT-" -> "ALIST"
/*"UTSCAT-" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"UTSCAT-" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
/*"UTSCAT-" -> {"LNAGG-"; "ILIST"; "NNI"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"UTSCAT-" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/

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```

/*"UTSCAT-" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"UTSCAT-" -> {"ELAGG"; "OM"; "LSAGG-"; "FIELD"; "EUCDOM"; "PID"}*/
/*"UTSCAT-" -> {"GCDDOM"; "UFD"; "DIVRING"; "INS"; "OINTDOM"; "ORDRING"}*/
/*"UTSCAT-" -> {"OAGROUP"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"}*/
/*"UTSCAT-" -> {"REAL"; "STEP"}*/

"VARIABLE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=VARIABLE"]
/*"VARIABLE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SYMBOL"; "INT"; "REF"}*/
"VARIABLE" -> "ALIST"
/*"VARIABLE" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"VARIABLE" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/
/*"VARIABLE" -> "BOOLEAN"*/

```

## Layer17

Depends on: ACF COMPCAT FFCAT FRNAALG FS OC QUATCAT RPOLCAT UTSCAT  
NSDPS

Used by next layer: ACFS EXPRSOL FDIVCAT UFPS ULSCCAT UTSSOL

The clique1.spad file is used because "MYEXPR" and "MYUP" are mutually dependent. Rather than add one to the bootstrap we let the compiler resolve them in one step. This same technique might be useful for other cliques in bootstrap. This needs to be investigated.

— layer17 —

```

LAYER17=\
  ${OUT}/ACFS.o      ${OUT}/ACFS-.o    ${OUT}/AF.o        ${OUT}/AFFPLPS.o  \
  ${OUT}/ALGFACT.o  \
  ${OUT}/ALGFF.o    ${OUT}/ALGMANIP.o  ${OUT}/ALGMFACT.o  ${OUT}/ALGPKG.o   \
  ${OUT}/ALGSC.o    ${OUT}/AN.o        ${OUT}/APPRULE.o    ${OUT}/ASP19.o    \
  ${OUT}/ASP20.o    ${OUT}/ASP31.o      ${OUT}/ASP35.o      ${OUT}/ASP41.o    \
  ${OUT}/ASP42.o    ${OUT}/ASP74.o      ${OUT}/ASP77.o      ${OUT}/ASP80.o    \
  ${OUT}/CDFMAT.o   ${OUT}/CDFVEC.o    \
  ${OUT}/CINTSLPE.o ${OUT}/COMBF.o      ${OUT}/COMPFAC.o    ${OUT}/COMPLEX.o  \
  ${OUT}/COMPLPAT.o ${OUT}/CMPLXRT.o    ${OUT}/CPMATCH.o    ${OUT}/CRFP.o     \
  ${OUT}/CTRIGMNP.o ${OUT}/DO1WGTS.o    ${OUT}/DO2AGNT.o    ${OUT}/DO3EEFA.o  \
  ${OUT}/DBLRESP.o  ${OUT}/DO1AGNT.o    ${OUT}/DERHAM.o     ${OUT}/DFSFUN.o   \
  ${OUT}/DRAWCURV.o ${OUT}/DTP.o        \
  ${OUT}/DO1TRNS.o  ${OUT}/EO4NAFA.o    ${OUT}/EF.o         \
  ${OUT}/EFSTRUC.o  ${OUT}/ELFUTS.o    ${OUT}/ESTOOLS.o    ${OUT}/EXPEXPAN.o \
  ${OUT}/EXPRODE.o  ${OUT}/EXPRTUBE.o  ${OUT}/EXPR2.o      ${OUT}/FC.o        \
  ${OUT}/FDIVCAT.o  ${OUT}/FDIVCAT-.o  ${OUT}/FDIV2.o      ${OUT}/FFCAT2.o    \
  ${OUT}/FLOATCP.o  ${OUT}/FORDER.o    ${OUT}/FORTRAN.o    ${OUT}/FRNAAF2.o   \
  ${OUT}/FSPRMELT.o ${OUT}/FSRED.o      ${OUT}/FSUPFACT.o   ${OUT}/FSPECF.o    \
  ${OUT}/FS2.o      ${OUT}/FS2UPS.o     ${OUT}/GAUSSFAC.o   ${OUT}/GCNAALG.o   \
  ${OUT}/GDRAW.o    \

```



```

${OUT}/GENUFACT.o ${OUT}/GENUPS.o ${OUT}/GTSET.o ${OUT}/GPOLSET.o \
${OUT}/IAN.o ${OUT}/INEP.o ${OUT}/INFPRODO.o ${OUT}/INFSP.o \
${OUT}/INPRODFF.o ${OUT}/INPRODPF.o ${OUT}/INTAF.o ${OUT}/INTALG.o \
${OUT}/INTEF.o ${OUT}/INTGO.o ${OUT}/INTHERAL.o ${OUT}/INTPAF.o \
${OUT}/INTPM.o ${OUT}/INTTOOLS.o ${OUT}/ITRIGMNP.o ${OUT}/JORDAN.o \
${OUT}/KOVACIC.o ${OUT}/LF.o ${OUT}/LIE.o ${OUT}/LODOF.o \
${OUT}/LSQM.o ${OUT}/MCMPLX.o ${OUT}/MULTFACT.o \
${MID}/clique1.spad \
${OUT}/NAGF01.o ${OUT}/NAGF02.o ${OUT}/NAGF04.o ${OUT}/NCEP.o \
${OUT}/NLINSOL.o ${OUT}/NSMP.o ${OUT}/NUMERIC.o ${OUT}/OCT.o \
${OUT}/OCTCT2.o ${OUT}/ODEPAL.o ${OUT}/ODERTRIC.o ${OUT}/OMEXPR.o \
${OUT}/PACEXC.o ${OUT}/PADE.o \
${OUT}/PAN2EXPR.o ${OUT}/PFO.o ${OUT}/PFOQ.o ${OUT}/PICOERCE.o \
${OUT}/PLACES.o ${OUT}/PLACESPS.o \
${OUT}/PMASFS.o ${OUT}/PMFS.o ${OUT}/PMPREDFS.o ${OUT}/PROJPLPS.o \
${OUT}/PSETPK.o \
${OUT}/QUAT.o ${OUT}/QUATCT2.o ${OUT}/RADFF.o ${OUT}/RDEEF.o \
${OUT}/RDEEFS.o ${OUT}/RDIV.o ${OUT}/RSETCAT.o ${OUT}/RSETCAT-.o \
${OUT}/RSETGCD.o ${OUT}/RULE.o ${OUT}/RULESET.o ${OUT}/SD.o \
${OUT}/SIGNEF.o ${OUT}/SIMPAN.o ${OUT}/SFORT.o ${OUT}/SOLVESER.o \
${OUT}/SOLVETRA.o ${OUT}/SUMFS.o ${OUT}/SUTS.o ${OUT}/TOOLSIGN.o \
${OUT}/TRIGMNP.o ${OUT}/TRMANIP.o ${OUT}/UFPS.o ${OUT}/ULSCCAT.o \
${OUT}/ULSCCAT-.o ${OUT}/UPXSSING.o ${OUT}/UTSODE.o ${OUT}/UTSODETL.o \
${OUT}/UTSSOL.o ${OUT}/UTS2.o ${OUT}/WUTSET.o \
layer17done

```

— layerpic —

```

/* layer 17 */
/* depends on: ACF COMPCAT FFCAT FRNAALG FS OC QUATCAT RPOLCAT UTSCAT */

"ACFS" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ACFS"]
"ACFS" -> "ACF"
/*"ACFS" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"ACFS" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ACFS" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"ACFS" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"ACFS" -> {"UFD"; "DIVRING"; "RADCAT"}*/
"ACFS" -> "FS"
/*"ACFS" -> {"ES"; "ORDSET"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"}*/
/*"ACFS" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"}*/
/*"ACFS" -> {"PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "INT"}*/
/*"ACFS" -> {"LIST"; "ILIST"; "UPOLYC"; "POLYC"; "FAMR"; "AMR"}*/
/*"ACFS" -> {"PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "NNI"}*/

"ACFS-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ACFS"]

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"ACFS-" -> "ACF"
/*"ACFS-" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"ACFS-" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"ACFS-" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"ACFS-" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"ACFS-" -> {"ENTIRER"; "UFD"; "DIVRING"; "RADCAT"}*/
"ACFS-" -> "FS"
/*"ACFS-" -> {"ES"; "ORDSET"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"}*/
/*"ACFS-" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"}*/
/*"ACFS-" -> {"GROUP"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"}*/
/*"ACFS-" -> {"INT"; "LIST"; "ILIST"; "UPOLYC"; "POLYCAT"; "FAMR"}*/
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/*"AF" -> {"MODULE"; "ENTIRER"}*/
"AF" -> "FS"
/*"AF" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"AF" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"AF" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"}*/
/*"AF" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "SYMBOL"; "INT"; "REF"}*/
/*"AF" -> {"ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"AF" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"}*/
/*"AF" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"; "UPOLYC"; "POLYCAT"}*/
/*"AF" -> {"FAMR"; "AMR"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"}*/
/*"AF" -> {"STEP"; "NNI"}*/
"AF" -> "ACF"
/*"AF" -> {"RADCAT"; "BOOLEAN"; "CACHSET"; "INS"; "OINTDOM"; "ORDRING"}*/
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"AFFPLPS" -> "PACFFC"
/*"AFFPLPS" -> {"FFIELDC"; "FPC"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"AFFPLPS" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"AFFPLPS" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"ASP19" -> {"LNAGG-"; "ILIST"; "FPS"; "RNS"; "FIELD"; "EUCDOM"; "PID"}*/
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"ASP31" -> "FS"
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/*"ASP41" -> {"RADCAT"; "PATMAB"; "CHARZ"}*/
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/*"CPMATCH" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
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/*"CRFP" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"CRFP" -> {"DIVRING"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"CRFP" -> {"ORDSET"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"CRFP" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"CRFP" -> {"FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"; "PFECAT"; "ELTAB"}*/
/*"CRFP" -> {"DIFRING"; "DIFEXT"; "STEP"}*/
"CRFP" -> "COMPCAT"
/*"CRFP" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "FFIELDC"; "FPC"}*/
/*"CRFP" -> {"FEVALAB"; "FPATMAB"; "TYPE"; "PATAB"; "TRANFUN"; "TRIGCAT"}*/
/*"CRFP" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "RADCAT"; "INT"; "NNI"}*/
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/*"CTRIGMNP" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"CTRIGMNP" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
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/*"D02AGNT" -> {"KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"; "OM"; "INT"}*/
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/*"D02AGNT" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
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/*"E04NAFA" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"E04NAFA" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "ORDRING"}*/
/*"E04NAFA" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"}*/
/*"E04NAFA" -> {"KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "STRING"}*/
/*"E04NAFA" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "INT"; "PRIMARR"}*/
/*"E04NAFA" -> {"A1AGG-"; "ISTRING"; "STRICAT"; "SRAGG"; "A1AGG"}*/
/*"E04NAFA" -> {"FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"E04NAFA" -> {"EVALAB"; "IEVALAB"; "ELTAGG"; "ELTAB"; "CLAGG"; "OM"}*/
/*"E04NAFA" -> {"NNI"; "DIFRING"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"E04NAFA" -> {"AHYP"; "ELEMFUN"; "SPFCAT"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"E04NAFA" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "ELAGG"; "ELAGG-"}*/
/*"E04NAFA" -> {"FLAGG-"; "DFLOAT"; "PI"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"E04NAFA" -> {"AMR"; "CHARNZ"; "FRETRCT"; "FLINEXP"; "LINEXP"; "PFECAT"}*/
/*"E04NAFA" -> "VECTCAT"*/
"E04NAFA" -> "FS"
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/*"EF" -> {"ALGEBRA"; "MODULE"; "ENTIRER"}*/
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/*"EF" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
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/*"EF" -> {"OAMON"; "OASGP"; "DIFRING"; "CFCAT"; "REAL"; "STEP"; "OM"}*/
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/*"ESTOOLS" -> {"A1AGG-"; "FLAGG-"; "LNAGG-"; "IXAGG-"; "CLAGG-"}*/
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/*"FDIV2" -> {"ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
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/*"FLOATCP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
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/*"INTPM" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "LINEXP"}*/
"INTPM" -> "ACF"
/*"INTPM" -> {"FIELD"; "EUCDOM"; "PID"; "UFD"; "DIVRING"; "RADCAT"}*/
/*"INTPM" -> {"TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
"INTPM" -> "FS"
/*"INTPM" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"INTPM" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"INTPM" -> {"CHARZ"; "CHARNZ"; "SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"}*/
/*"INTPM" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"INTPM" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "INS"; "OINTDOM"}*/
/*"INTPM" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
/*"INTPM" -> {"CFCAT"; "REAL"; "STEP"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"INTPM" -> {"HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"INTPM" -> {"FLAGG"; "ELAGG"; "OM"; "ILIST"; "PI"; "NNI"; "LFCAT"}*/
/*"INTPM" -> {"PRIMCAT"; "CACHSET"; "BOOLEAN"; "LSAGG-"; "POLYCAT"; "FAMR"}*/
/*"INTPM" -> {"AMR"; "PFECAT"; "UPOLYC"; "DIFEXT"; "STAGG-"; "ELAGG-"}*/
/*"INTPM" -> {"URAGG-"; "SPFCAT"}*/

"INTTOOLS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=INTTOOLS"]
/*"INTTOOLS" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
"INTTOOLS" -> "FS"
/*"INTTOOLS" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"INTTOOLS" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "MONOID"; "SGROUP"}*/
/*"INTTOOLS" -> {"GROUP"; "ABELMON"; "ABELSG"; "ABELGRP"; "CABMON"}*/
/*"INTTOOLS" -> {"RING"; "RNG"; "LMODULE"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"INTTOOLS" -> {"CHARZ"; "CHARNZ"; "ALGEBRA"; "MODULE"; "BMODULE"}*/
/*"INTTOOLS" -> {"RMODULE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/

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/*"INTTOOLS" -> {"COMRING"; "ENTIRER"; "UFD"; "DIVRING"; "CACHSET"; "INT"}*/
/*"INTTOOLS" -> {"LIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
/*"INTTOOLS" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"}*/
/*"INTTOOLS" -> {"ELAGG"; "OM"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"INTTOOLS" -> {"NNI"; "BOOLEAN"; "SYMBOL"; "REF"; "ALIST"; "STRING"}*/
/*"INTTOOLS" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"INTTOOLS" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "ELEMFUN"; "POLYCAT"}*/
/*"INTTOOLS" -> {"FAMR"; "AMR"; "PFECAT"; "UPOLYC"; "DIFRING"; "DIFEXT"}*/
/*"INTTOOLS" -> {"STEP"; "LFECAT"; "PRIMCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"INTTOOLS" -> {"ATRIG"; "HYPCAT"; "AHYP"}*/

"ITRIGMNP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ITRIGMNP"]
/*"ITRIGMNP" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"ITRIGMNP" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"ITRIGMNP" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"ITRIGMNP" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"}*/
"ITRIGMNP" -> "FS"
/*"ITRIGMNP" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"ITRIGMNP" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"ITRIGMNP" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"}*/
/*"ITRIGMNP" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "RADCAT"; "TRANFUN"}*/
/*"ITRIGMNP" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "BOOLEAN"}*/
"ITRIGMNP" -> "COMPCAT"
/*"ITRIGMNP" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "DIFEXT"}*/
/*"ITRIGMNP" -> {"DIFRING"; "FFIELDC"; "FPC"; "STEP"; "FEVALAB"; "ELTAB"}*/
/*"ITRIGMNP" -> {"PFECAT"; "OM"; "CACHSET"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"ITRIGMNP" -> {"RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"ITRIGMNP" -> {"CLAGG"; "FLAGG"; "ELAGG"; "INT"; "LIST"; "ILIST"}*/
/*"ITRIGMNP" -> {"SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"; "SINT"}*/
/*"ITRIGMNP" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"ITRIGMNP" -> {"FLAGG-"; "LNAGG-"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"ITRIGMNP" -> {"URAGG-"; "POLYCAT"; "FAMR"; "AMR"}*/

"JORDAN" [color="#88FF44",href="bookvol10.3.pdf#nameddest=JORDAN"]
/*"JORDAN" -> {"NAALG"; "NARNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"JORDAN" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "MONAD"; "MODULE"}*/
/*"JORDAN" -> {"BMODULE"; "LMODULE"; "RMODULE"}*/
"JORDAN" -> "FRNAALG"
/*"JORDAN" -> {"FINAALG"; "COMRING"; "RING"; "RNG"; "SGROUP"; "MONOID"}*/
/*"JORDAN" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "ALGEBRA"}*/
/*"JORDAN" -> {"ENTIRER"; "UFD"; "DIVRING"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"JORDAN" -> {"AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"JORDAN" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"JORDAN" -> {"PATMAB"; "PFECAT"}*/

"KOVACIC" [color="#FF4488",href="bookvol10.4.pdf#nameddest=KOVACIC"]
/*"KOVACIC" -> {"CHARZ"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"KOVACIC" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"KOVACIC" -> {"MONOID"; "LMODULE"}*/
"KOVACIC" -> "ACF"

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/*"KOVACIC" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"KOVACIC" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"KOVACIC" -> {"UFD"; "DIVRING"; "RADCAT"; "RETRACT"; "UPOLYC"}*/
/*"KOVACIC" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"KOVACIC" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"KOVACIC" -> {"KONVERT"; "PATMAB"; "PFECAT"; "ELTAB"; "DIFRING"}*/
/*"KOVACIC" -> {"DIFEXT"; "STEP"; "QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"}*/
/*"KOVACIC" -> {"TYPE"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"KOVACIC" -> {"OASGP"; "REAL"; "PI"; "NNI"; "INT"; "LIST"; "ILIST"}*/
/*"KOVACIC" -> "BOOLEAN"*/

"LF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=LF"]
/*"LF" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "INTDOM"; "COMRING"}*/
/*"LF" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LF" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"LF" -> {"MODULE"; "ENTIRER"}*/
"LF" -> "FS"
/*"LF" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"LF" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"LF" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"}*/
/*"LF" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "RADCAT"; "TRANFUN"}*/
/*"LF" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "SYMBOL"}*/
/*"LF" -> {"INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"}*/
/*"LF" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
/*"LF" -> {"LNAGG-"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"}*/
/*"LF" -> {"PI"; "NNI"; "BOOLEAN"}*/

"LIE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=LIE"]
/*"LIE" -> {"NAALG"; "NARNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LIE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "MONAD"; "MODULE"; "BMODULE"}*/
/*"LIE" -> {"LMODULE"; "RMODULE"}*/
"LIE" -> "FRNAALG"
/*"LIE" -> {"FINAALG"; "COMRING"; "RING"; "RNG"; "SGROUP"; "MONOID"}*/
/*"LIE" -> {"PI"; "NNI"; "INT"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"LIE" -> {"INTDOM"; "ALGEBRA"; "ENTIRER"; "UFD"; "DIVRING"; "POLYCAT"}*/
/*"LIE" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"LIE" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"LIE" -> {"ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"}*/

"LODOF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=LODOF"]
/*"LODOF" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"LODOF" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"LODOF" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"LODOF" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"LODOF" -> {"ENTIRER"; "UFD"; "DIVRING"; "CHARZ"; "RETRACT"; "UPOLYC"}*/
/*"LODOF" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"LODOF" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"LODOF" -> {"KONVERT"; "PATMAB"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"}*/
/*"LODOF" -> {"STEP"; "QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"}*/
/*"LODOF" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/

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/*"LODOF" -> {"OASGP"; "REAL"; "BOOLEAN"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"LODOF" -> {"STAGG-"; "SINT"; "NNI"; "OM"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"LODOF" -> {"RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
/*"LODOF" -> {"FLAGG"; "ELAGG"; "PI"; "ELAGG-"; "MONOID-"; "ABELMON-"}*/
"LODOF" -> "ACF"
/*"LODOF" -> {"RADCAT"; "ES"}*/

"LSQM" [color="#88FF44",href="bookvol10.3.pdf#nameddest=LSQM"]
/*"LSQM" -> {"SMATCAT"; "DIFEXT"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"LSQM" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"LSQM" -> {"MONOID"; "LMODULE"; "DIFRING"; "PDRING"; "BMODULE"; "RMODULE"}*/
/*"LSQM" -> {"RMATCAT"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"LSQM" -> {"MODULE"; "COMRING"; "FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"}*/
/*"LSQM" -> "ALGEBRA"*/
"LSQM" -> "FRNAALG"
/*"LSQM" -> {"FINAALG"; "NAALG"; "NARNG"; "MONAD"; "INTDOM"; "ENTIRER"}*/
/*"LSQM" -> {"PI"; "NNI"; "INT"; "SINT"; "VECTOR"; "IVECTOR"; "IARRAY1"}*/
/*"LSQM" -> {"VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"LSQM" -> {"ELTAB"; "CLAGG"; "KONVERT"; "ORDSET"; "VECTCAT-"; "A1AGG-"}*/
/*"LSQM" -> {"FLAGG-"; "LNAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"; "ORDSET-"}*/
/*"LSQM" -> {"AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"; "EUCDOM"; "PID"}*/
/*"LSQM" -> {"GCDDOM"; "FIELD"; "UFD"; "DIVRING"; "POLYCAT"; "FAMR"; "AMR"}*/
/*"LSQM" -> {"CHARZ"; "CHARNZ"; "PATMAB"; "PFECAT"; "INS"; "OINTDOM"}*/
/*"LSQM" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "CFCAT"}*/
/*"LSQM" -> {"REAL"; "STEP"}*/

"OMEXPR" [color="#FF4488",href="bookvol10.4.pdf#nameddest=OMEXPR"]
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/*"OMEXPR" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"OMEXPR" -> {"MONOID"; "LMODULE"; "BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"OMEXPR" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"OMEXPR" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"OMEXPR" -> {"FLAGG"; "ELAGG"; "INT"; "LIST"; "ILIST"; "NNI"; "LSAGG-"}*/
/*"OMEXPR" -> {"STAGG-"; "PI"; "SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"}*/
/*"OMEXPR" -> {"SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"OMEXPR" -> {"FLAGG-"; "LNAGG-"}*/
"OMEXPR" -> "FS"
/*"OMEXPR" -> {"ES"; "RETRACT"; "PATAB"; "FPATMAB"; "PATMAB"; "FRETRCT"}*/
/*"OMEXPR" -> {"GROUP"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"}*/
/*"OMEXPR" -> {"ALGEBRA"; "MODULE"; "BMODULE"; "RMODULE"; "FIELD"; "EUCDOM"}*/
/*"OMEXPR" -> {"PID"; "GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"; "UFD"}*/
/*"OMEXPR" -> "DIVRING"*/

"MCMLPLX" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MCMLPLX"]
/*"MCMLPLX" -> {"FMTC"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"MCMLPLX" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"MCMLPLX" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"MCMLPLX" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"; "RETRACT"}*/
"MCMLPLX" -> "COMPCAT"
/*"MCMLPLX" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "CHARZ"; "CHARNZ"}*/

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/*"MCMPLX" -> {"KONVERT"; "FRETRCT"; "FLINEXP"; "LINEXP"; "FINITE"}*/
/*"MCMPLX" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"}*/
/*"MCMPLX" -> {"DIFEXT"; "DIFRING"; "PDRING"; "FFIELDC"; "FPC"; "STEP"}*/
/*"MCMPLX" -> {"FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"; "FPATMAB"; "TYPE"}*/
/*"MCMPLX" -> {"PATMAB"; "PATAB"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"MCMPLX" -> {"AHYP"; "ELEMFUN"; "RADCAT"; "PFECAT"; "FPS"; "RNS"}*/
/*"MCMPLX" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
/*"MCMPLX" -> {"INS"; "OINTDOM"; "CFCAT"; "UPOLYC"; "POLYCAT"; "FAMR"}*/
/*"MCMPLX" -> {"AMR"; "OAMONS"}*/

"MULTFACT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=MULTFACT"]
/*"MULTFACT" -> {"ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "OAMONS"; "OCAMON"}*/
/*"MULTFACT" -> {"OAMON"; "OASGP"; "ABELMON"; "ABELSG"; "CABMON"; "EUCDOM"}*/
/*"MULTFACT" -> {"PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"MULTFACT" -> {"ABELGRP"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"MULTFACT" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"}*/
/*"MULTFACT" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"; "FRETRCT"}*/
/*"MULTFACT" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"MULTFACT" -> {"KONVERT"; "PATMAB"; "PFECAT"; "UFD"; "INS"; "OINTDOM"}*/
/*"MULTFACT" -> {"ORDRING"; "OAGROUP"; "DIFRING"; "CFCAT"; "REAL"; "STEP"}*/
"MULTFACT" -> "COMPCAT"
/*"MULTFACT" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "FIELD"}*/
/*"MULTFACT" -> {"DIVRING"; "DIFEXT"; "FFIELDC"; "FPC"; "FEVALAB"; "ELTAB"}*/
/*"MULTFACT" -> {"FPATMAB"; "TYPE"; "PATAB"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"MULTFACT" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "RADCAT"; "UPOLYC"}*/

/* MYEXPR and MYUP are mutually dependent */
/* We remove them and create a new node */
"MYEXPR/MYUP" [color="blue",href="bookvol10.3.pdf#nameddest=MYEXPR"]
"MYEXPR/MYUP" -> "FS"

/*"MYEXPR" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MYEXPR"]*/
/*"MYEXPR" -> "MYUP"*/ /* clique1.spad */
/*"MYEXPR" -> {"FS"; "ES"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"MYEXPR" -> {"RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"MYEXPR" -> {"TYPE"; "PATMAB"; "FRETRCT"; "MONOID"; "SGROUP"; "GROUP"}*/
/*"MYEXPR" -> {"ABELMON"; "ABELSG"; "ABELGRP"; "CABMON"; "RING"; "RNG"}*/
/*"MYEXPR" -> {"LMODULE"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"}*/
/*"MYEXPR" -> {"ALGEBRA"; "MODULE"; "BMODULE"; "RMODULE"; "FIELD"; "EUCDOM"}*/
/*"MYEXPR" -> {"PID"; "GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"; "UFD"}*/
/*"MYEXPR" -> {"DIVRING"; "COMBOPC"; "CFCAT"; "POLYCAT"; "FAMR"; "AMR"}*/
/*"MYEXPR" -> {"PFECAT"; "UPOLYC"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
/*"MYEXPR" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"MYEXPR" -> {"OASGP"; "REAL"; "FPS"; "RNS"; "RADCAT"; "QFCAT"}*/
/*"MYEXPR" -> {"FEVALAB"; "CACHSET"}*/

/*"MYUP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=MYUP"]*/
/*"MYUP" -> "MYEXPR"*/ /* clique1.spad */
/*"MYUP" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"MYUP" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/

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/*"MYUP" -> {"SGROUP"; "MONOID"; "LMODULE"; "FAMR"; "AMR"; "BMODULE"}*/
/*"MYUP" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
/*"MYUP" -> {"INTDOM"; "ENTIRER"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"MYUP" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"}*/
/*"MYUP" -> {"PFECAT"; "UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
/*"MYUP" -> {"EUCDOM"; "PID"; "FIELD"; "DIVRING"; "NNI"; "INT"; "FPS"}*/
/*"MYUP" -> {"RNS"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"MYUP" -> {"REAL"; "RADCAT"; "INS"; "OINTDOM"; "CFCAT"}*/

"NAGF01" [color="#FF4488",href="bookvol10.4.pdf#nameddest=NAGF01"]
/*"NAGF01" -> {"SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"}*/
/*"NAGF01" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"NAGF01" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "FPS"; "RNS"; "FIELD"}*/
/*"NAGF01" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"NAGF01" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"NAGF01" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"NAGF01" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"NAGF01" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"NAGF01" -> {"REAL"; "KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"}*/
/*"NAGF01" -> {"INS"; "OINTDOM"; "DIFRING"; "LINEXP"; "CFCAT"; "STEP"}*/
"NAGF01" -> "COMPCAT"
/*"NAGF01" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "CHARNZ"; "FRETRCT"}*/
/*"NAGF01" -> {"FLINEXP"; "FINITE"; "DIFEXT"; "PDRING"; "FFIELDC"; "FPC"}*/
/*"NAGF01" -> {"FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"; "FPATMAB"; "TYPE"}*/
/*"NAGF01" -> {"PATAB"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"}*/
/*"NAGF01" -> {"ELEMFUN"; "PFECAT"}*/

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/*"NAGF02" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"NAGF02" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"NAGF02" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "ORDRING"}*/
/*"NAGF02" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"}*/
/*"NAGF02" -> {"KONVERT"; "RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "INS-"}*/
/*"NAGF02" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"; "ALGEBRA-"}*/
/*"NAGF02" -> {"DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"}*/
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/*"NAGF02" -> {"DFLOAT"; "PI"; "NNI"}*/
"NAGF02" -> "COMPCAT"
/*"NAGF02" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "CHARNZ"; "FRETRCT"}*/
/*"NAGF02" -> {"FLINEXP"; "LINEXP"; "FINITE"; "DIFEXT"; "DIFRING"}*/
/*"NAGF02" -> {"PDRING"; "FFIELDC"; "FPC"; "STEP"; "FEVALAB"}*/
/*"NAGF02" -> {"ELTAB"; "EVALAB"; "IEVALAB"; "FPATMAB"; "TYPE"}*/
/*"NAGF02" -> {"PATAB"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
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/*"NAGF04" -> {"FFIELDC"; "FPC"; "STEP"; "FEVALAB"; "ELTAB"; "EVALAB"}*/
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/*"NCEP" -> {"CHARZ"; "STEP"; "QFCAT"; "FEVALAB"; "ELTAB"; "EVALAB"}*/
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/*"NLINSOL" -> {"CLAGG"; "FLAGG"; "ELAGG"; "NNI"; "INS"; "OINTDOM"}*/
/*"NLINSOL" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "DIFRING"}*/
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/*"ODEPAL" -> {"ENTIRER"; "UFD"; "DIVRING"; "CHARZ"; "RETRACT"; "UPOLYC"}*/
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/*"ODEPAL" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
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/*"PFO" -> {"AMR"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
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/*"PFO" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "FFIELDC"; "FPC"}*/
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/*"PFO" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/
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/*"PFOQ" -> {"IXAGG"; "HOAGG"; "AGG"; "ELTAGG"; "CLAGG"}*/

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"PLACES" -> "NSDPS"
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/*"PLACES" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
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/*"PICOERCE" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
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/*"PICOERCE" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
/*"PICOERCE" -> {"UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"}*/
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/*"RSETGCD" -> {"LINEXP"; "KONVERT"; "PATMAB"; "PFECAT"; "UFD"; "RSETCAT"}*/
/*"RSETGCD" -> {"TSETCAT"; "PSETCAT"; "CLAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"RSETGCD" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "IXAGG"}*/
/*"RSETGCD" -> {"ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "BOOLEAN"; "INT"}*/
/*"RSETGCD" -> {"LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"}*/
/*"RSETGCD" -> {"OM"; "NNI"; "INS-"}*/

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"RULE" [color="#88FF44",href="bookvol10.3.pdf#nameddest=RULE"]
/*"RULE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ELTAB"; "RETRACT"}*/
"RULE" -> "FS"
/*"RULE" -> {"ES"; "ORDSET"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"RULE" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRACT"; "MONOID"; "SGROUP"}*/
/*"RULE" -> {"GROUP"; "ABELMON"; "ABELSG"; "ABELGRP"; "CABMON"; "RING"}*/
/*"RULE" -> {"RNG"; "LMODULE"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"}*/
/*"RULE" -> {"CHARNZ"; "ALGEBRA"; "MODULE"; "BMODULE"; "RMODULE"; "FIELD"}*/
/*"RULE" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"}*/
/*"RULE" -> {"UFD"; "DIVRING"; "INT"; "LIST"; "ILIST"; "OM"; "BOOLEAN"}*/
/*"RULE" -> {"LSAGG-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"RULE" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"RULE" -> {"SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"RULE" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/

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"RULESET" -> "FS"
/*"RULESET" -> {"ES"; "ORDSET"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"}*/
/*"RULESET" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRACT"; "MONOID"}*/
/*"RULESET" -> {"SGROUP"; "GROUP"; "ABELMON"; "ABELSG"; "ABELGRP"; "CABMON"}*/
/*"RULESET" -> {"RING"; "RNG"; "LMODULE"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"RULESET" -> {"CHARZ"; "CHARNZ"; "ALGEBRA"; "MODULE"; "BMODULE"}*/
/*"RULESET" -> {"RMODULE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"RULESET" -> {"COMRING"; "ENTIRER"; "UFD"; "DIVRING"; "INT"; "LIST"}*/
/*"RULESET" -> {"ILIST"; "FSAGG"; "DIAGG"; "DIOPS"; "BGAGG"; "HOAGG"}*/
/*"RULESET" -> {"AGG"; "CLAGG"; "SETAGG"; "FINITE"}*/

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/*"SD" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MODULE"; "BMODULE"; "LMODULE"}*/
/*"SD" -> {"RMODULE"; "RETRACT"; "ES"; "ORDSET"; "IEVALAB"; "EVALAB"}*/
/*"SD" -> {"PATAB"; "KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRACT"}*/
/*"SD" -> {"MONOID"; "GROUP"; "RING"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"SD" -> {"CHARZ"; "CHARNZ"; "ALGEBRA"; "FIELD"; "EUCDOM"; "PID"}*/
/*"SD" -> {"GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"SD" -> {"NNI"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"SD" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"SD" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"}*/
/*"SD" -> {"BASTYPE-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"SD" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"SD" -> {"FLAGG"; "ELAGG"; "OM"; "PI"; "SYMBOL"; "REF"; "ALIST"}*/
/*"SD" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SD" -> {"ISTRING"; "SRAGG"; "BOOLEAN"; "BSD"}*/
"SD" -> "FS"

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/*"SIGNEF" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
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/*"SIGNEF" -> {"MODULE"; "ENTIRER"; "ORDSET"; "RETRACT"; "LINEXP"; "GCDDOM"}*/
/*"SIGNEF" -> {"ACF"; "FIELD"; "EUCDOM"; "PID"; "UFD"; "DIVRING"; "RADCAT"}*/
/*"SIGNEF" -> {"TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
"SIGNEF" -> "FS"
/*"SIGNEF" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"SIGNEF" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"SIGNEF" -> {"CHARZ"; "CHARNZ"; "NNI"; "INT"; "POLYCAT"; "FAMR"; "AMR"}*/
/*"SIGNEF" -> {"PFECAT"; "CACHSET"; "LIST"; "ILIST"; "SYMBOL"; "REF"}*/
/*"SIGNEF" -> {"ALIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"SIGNEF" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG"}*/
/*"SIGNEF" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"}*/
/*"SIGNEF" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "FPS"}*/
/*"SIGNEF" -> {"RNS"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SIGNEF" -> {"REAL"; "DIFRING"; "INTCAT"; "QFCAT"; "FEVALAB"; "DIFEXT"}*/
/*"SIGNEF" -> {"STEP"; "OINTDOM"; "PI"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"SIGNEF" -> {"URAGG-"; "INS-"}*/

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/*"SIMPAN" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"SIMPAN" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SIMPAN" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"SIMPAN" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"SIMPAN" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"SIMPAN" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"}*/
"SIMPAN" -> "FS"
/*"SIMPAN" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "FPATMAB"; "TYPE"}*/
/*"SIMPAN" -> {"FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARNZ"}*/
/*"SIMPAN" -> {"FIELD"; "DIVRING"}*/

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"SFORT" -> "FS"
/*"SFORT" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"SFORT" -> {"FPATMAB"; "PATMAB"; "FRETRCT"; "MONOID"; "SGROUP"; "GROUP"}*/
/*"SFORT" -> {"ABELMON"; "ABELSG"; "ABELGRP"; "CABMON"; "RING"; "RNG"}*/
/*"SFORT" -> {"LMODULE"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"}*/
/*"SFORT" -> {"ALGEBRA"; "MODULE"; "BMODULE"; "RMODULE"; "FIELD"; "EUCDOM"}*/
/*"SFORT" -> {"PID"; "GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"; "UFD"}*/
/*"SFORT" -> {"DIVRING"; "SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"}*/
/*"SFORT" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
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/*"SOLVESER" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SOLVESER" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SOLVESER" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"; "SYMBOL"}*/

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/*"SOLVESER" -> {"INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"}*/
/*"SOLVESER" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"SOLVESER" -> {"FLAGG-"; "LNAGG-"}*/
"SOLVESER" -> "FS"
/*"SOLVESER" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"SOLVESER" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"SOLVESER" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"}*/
/*"SOLVESER" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "UPOLYC"; "POLYCAT"}*/
/*"SOLVESER" -> {"FAMR"; "AMR"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"}*/
/*"SOLVESER" -> {"STEP"; "NNI"; "VECTOR"; "IVECTOR"; "IARRAY1"; "ILIST"}*/
/*"SOLVESER" -> {"PI"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"}*/
/*"SOLVESER" -> {"HOAGG"; "AGG"; "ELTAGG"; "CLAGG"}*/

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/*"SOLVETRA" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SOLVETRA" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"SOLVETRA" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"SOLVETRA" -> {"ENTIRER"; "RETRACT"; "LINEXP"; "CHARZ"; "INT"; "LIST"}*/
/*"SOLVETRA" -> {"ILIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"SOLVETRA" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"}*/
/*"SOLVETRA" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"; "ELAGG"}*/
/*"SOLVETRA" -> {"OM"; "NNI"; "QFCAT"; "FIELD"; "UFD"; "DIVRING"; "FEVALAB"}*/
/*"SOLVETRA" -> {"DIFEXT"; "DIFRING"; "PDRING"; "FLINEXP"; "PATAB"}*/
/*"SOLVETRA" -> {"FPATMAB"; "PATMAB"; "STEP"; "OINTDOM"; "ORDRING"}*/
/*"SOLVETRA" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "CHARNZ"}*/
/*"SOLVETRA" -> {"PFECAT"; "BOOLEAN"; "SYMBOL"; "REF"; "ALIST"; "STRING"}*/
/*"SOLVETRA" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"SOLVETRA" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "UPOLYC"; "POLYCAT"; "FAMR"}*/
/*"SOLVETRA" -> {"AMR"; "FRETRCT"}*/
"SOLVETRA" -> "FS"
/*"SOLVETRA" -> {"ES"; "GROUP"; "LSAGG-"; "STAGG-"; "CACHSET"; "PI"; "ACFS"}*/
/*"SOLVETRA" -> {"ACF"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"SOLVETRA" -> {"AHYP"; "ELEMFUN"; "COMBOPC"; "CFCAT"; "LFCAT"; "PRIMCAT"}*/
/*"SOLVETRA" -> {"SPFCAT"; "ELAGG-"; "URAGG-"; "FPS"; "RNS"; "INTCAT"}*/
/*"SOLVETRA" -> {"COMPCAT"; "MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"}*/
/*"SOLVETRA" -> {"FFIELDC"; "FPC"}*/

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/*"SUMFS" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SUMFS" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SUMFS" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"; "RETRACT"; "LINEXP"}*/
"SUMFS" -> "FS"
/*"SUMFS" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"SUMFS" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"SUMFS" -> {"CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"SUMFS" -> {"UFD"; "DIVRING"; "COMBOPC"; "CFCAT"}*/
"SUMFS" -> "ACF"
/*"SUMFS" -> {"RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"}*/

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/*"SUMFS" -> {"ELEMFUN"; "SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"}*/
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/*"SUMFS" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"SUMFS" -> {"RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"SUMFS" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "CACHSET"; "ILIST"; "BOOLEAN"}*/

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/*"SUTS" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
"SUTS" -> "UTSCAT"
/*"SUTS" -> {"UPSCAT"; "PSCAT"; "AMR"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"SUTS" -> {"ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"SUTS" -> {"ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"SUTS" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "INT"; "BOOLEAN"}*/
/*"SUTS" -> {"NNI"; "INS"; "UFD"; "GCDDOM"; "EUCDOM"; "PID"; "OINTDOM"}*/
/*"SUTS" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"SUTS" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"SUTS" -> {"STEP"; "OM"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"}*/
/*"SUTS" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "FIELD"; "DIVRING"; "OAMONS"}*/

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/*"TOOLSIGN" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"TOOLSIGN" -> {"LMODULE"; "INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"TOOLSIGN" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"TOOLSIGN" -> {"EUCDOM"; "PID"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"TOOLSIGN" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"; "KONVERT"}*/
/*"TOOLSIGN" -> {"RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"TOOLSIGN" -> {"CHARZ"; "STEP"}*/
"TOOLSIGN" -> "FS"
/*"TOOLSIGN" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "FPATMAB"; "TYPE"}*/
/*"TOOLSIGN" -> {"FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARNZ"; "FIELD"}*/
/*"TOOLSIGN" -> {"DIVRING"; "OM"; "INT"; "INS-"; "EUCDOM-"; "UFD-"}*/
/*"TOOLSIGN" -> {"GCDDOM-"; "INTDOM-"; "ALGEBRA-"; "DIFRING-"; "ORDRING-"}*/
/*"TOOLSIGN" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"}*/
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/*"TRIGMNIP" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"TRIGMNIP" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"TRIGMNIP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"}*/
/*"TRIGMNIP" -> {"RETRACT"; "LINEXP"}*/
"TRIGMNIP" -> "ACF"
/*"TRIGMNIP" -> {"FIELD"; "EUCDOM"; "PID"; "UFD"; "DIVRING"; "RADCAT"}*/
/*"TRIGMNIP" -> {"TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
"TRIGMNIP" -> "FS"
/*"TRIGMNIP" -> {"ES"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"TRIGMNIP" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"TRIGMNIP" -> {"CHARZ"; "CHARNZ"; "INT"; "LIST"; "ILIST"}*/

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"TRIGMNIP" -> "COMPCAT"
/*"TRIGMNIP" -> {"MONOGEN"; "FRAMALG"; "FINRALG"; "FINITE"; "DIFEXT"}*/
/*"TRIGMNIP" -> {"DIFRING"; "FFIELDC"; "FPC"; "STEP"; "FEVALAB"; "ELTAB"}*/
/*"TRIGMNIP" -> {"PFECAT"; "OM"; "SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"}*/
/*"TRIGMNIP" -> {"SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"TRIGMNIP" -> {"FLAGG-"; "LNAGG-"; "LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"}*/
/*"TRIGMNIP" -> {"INS-"; "NNI"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"TRIGMNIP" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"}*/
/*"TRIGMNIP" -> {"ELAGG"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "BOOLEAN"}*/

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/*"TRMANIP" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"TRMANIP" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"TRMANIP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
"TRMANIP" -> "FS"
/*"TRMANIP" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"TRMANIP" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"TRMANIP" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"}*/
/*"TRMANIP" -> {"PID"; "UFD"; "DIVRING"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"TRMANIP" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "SYMBOL"; "INT"; "REF"}*/
/*"TRMANIP" -> {"ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"TRMANIP" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
/*"TRMANIP" -> {"LNAGG-"; "ILIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"TRMANIP" -> {"HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"}*/
/*"TRMANIP" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "NNI"; "LSAGG-"; "STAGG-"}*/
/*"TRMANIP" -> {"BOOLEAN"; "ELAGG-"; "URAGG-"; "CACHSET"; "POLYCAT"}*/
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/*"TSETCAT" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"TSETCAT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"TSETCAT" -> {"MODULE"; "ENTIRER"; "PSETCAT"; "CLAGG"; "HOAGG"; "AGG"}*/
/*"TSETCAT" -> {"TYPE"; "EVALAB"; "IEVALAB"; "KONVERT"; "OAMONS"; "OCAMON"}*/
/*"TSETCAT" -> {"OAMON"; "OASGP"; "ORDSET"}*/
"TSETCAT" -> "RPOLCAT"
/*"TSETCAT" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"TSETCAT" -> {"FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"; "PATMAB"}*/
/*"TSETCAT" -> {"GCDDOM"; "PFECAT"; "UFD"; "BOOLEAN"; "INT"; "LIST"}*/
/*"TSETCAT" -> {"ILIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"TSETCAT" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"}*/
/*"TSETCAT" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"}*/
/*"TSETCAT" -> {"RCAGG-"; "IXAGG-"; "CLAGG-"; "NNI"; "INS-"; "FINITE"}*/

"TSETCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=TSETCAT",
            shape=ellipse]
/*"TSETCAT-" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"TSETCAT-" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/

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/*"TSETCAT-" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"TSETCAT-" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "PSETCAT"}*/
/*"TSETCAT-" -> {"CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"TSETCAT-" -> {"KONVERT"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"TSETCAT-" -> "ORDSET"*/
"TSETCAT-" -> "RPOLCAT"
/*"TSETCAT-" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"TSETCAT-" -> {"FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"; "PATMAB"}*/
/*"TSETCAT-" -> {"GCDDOM"; "PFECAT"; "UFD"; "BOOLEAN"; "INT"; "LIST"}*/
/*"TSETCAT-" -> {"ILIST"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"TSETCAT-" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"}*/
/*"TSETCAT-" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"}*/
/*"TSETCAT-" -> {"LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "NNI"}*/
/*"TSETCAT-" -> {"INS-"; "FINITE"}*/

"UFPS" [color="#88FF44",href="bookvol10.3.pdf#nameddest=UFPS"]
/*"UFPS" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UFPS" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
"UFPS" -> "UTSCAT"
/*"UFPS" -> {"UPSCAT"; "PSCAT"; "AMR"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"UFPS" -> {"ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"UFPS" -> {"ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"UFPS" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "OAMONS"; "OCAMON"}*/
/*"UFPS" -> {"OAMON"; "OASGP"; "ORDSET"; "INS"; "UFD"; "GCDDOM"; "EUCDOM"}*/
/*"UFPS" -> {"PID"; "OINTDOM"; "ORDRING"; "OAGROUP"; "KONVERT"; "RETRACT"}*/
/*"UFPS" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "STEP"; "FIELD"; "DIVRING"}*/

"ULSCCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=ULSCCAT"]
/*"ULSCCAT" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"}*/
/*"ULSCCAT" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"ULSCCAT" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"ULSCCAT" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"ULSCCAT" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
/*"ULSCCAT" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"ULSCCAT" -> {"AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"ULSCCAT" -> {"UFD"; "DIVRING"; "RETRACT"; "QFCAT"; "FEVALAB"; "EVALAB"}*/
/*"ULSCCAT" -> {"IEVALAB"; "DIFEXT"; "FLINEXP"; "LINEXP"; "PATAB"}*/
/*"ULSCCAT" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "STEP"; "ORDSET"}*/
/*"ULSCCAT" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"ULSCCAT" -> {"OASGP"; "REAL"; "PFECAT"}*/
"ULSCCAT" -> "UTSCAT"
/*"ULSCCAT" -> {"INS"; "CFCAT"}*/

"ULSCCAT-" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ULSCCAT"]
/*"ULSCCAT-" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"}*/
/*"ULSCCAT-" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"ULSCCAT-" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"ULSCCAT-" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"ULSCCAT-" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"}*/
/*"ULSCCAT-" -> {"DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/

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/*"ULSCCAT-" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "FIELD"}*/
/*"ULSCCAT-" -> {"EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"}*/
/*"ULSCCAT-" -> {"QFCAT"; "FEVALAB"; "EVALAB"; "IEVALAB"; "DIFEXT"}*/
/*"ULSCCAT-" -> {"FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"ULSCCAT-" -> {"TYPE"; "PATMAB"; "STEP"; "ORDSET"; "OINTDOM"}*/
/*"ULSCCAT-" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"ULSCCAT-" -> {"REAL"; "PFECAT"}*/
"ULSCCAT-" -> "UTSCAT"
/*"ULSCCAT-" -> {"INS"; "CFCAT"}*/

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/*"UPXSSING" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UPXSSING" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"UPXSSING" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"UPXSSING" -> {"ENTIRER"; "UFD"; "DIVRING"; "RADCAT"; "TRANFUN"}*/
/*"UPXSSING" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
"UPXSSING" -> "FS"
/*"UPXSSING" -> {"ES"; "ORDSET"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"}*/
/*"UPXSSING" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"}*/
/*"UPXSSING" -> {"GROUP"; "PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"}*/
/*"UPXSSING" -> {"FAMR"; "AMR"; "UPXSCCA"; "UPXSCAT"; "UPSCAT"; "PSCAT"}*/
/*"UPXSSING" -> {"ELTAB"; "DIFRING"; "NNI"; "INT"; "LIST"; "ILIST"; "INS"}*/
/*"UPXSSING" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"UPXSSING" -> {"OASGP"; "CFCAT"; "REAL"; "STEP"; "BOOLEAN"; "OM"}*/
/*"UPXSSING" -> {"LSAGG-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"UPXSSING" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"}*/
/*"UPXSSING" -> {"ELAGG"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"UPXSSING" -> {"A1AGG-"; "ISTRING"; "QFCAT"; "FEVALAB"; "DIFEXT"; "PFECAT"}*/

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/*"UTSODE" -> {"ALGEBRA"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"UTSODE" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"UTSODE" -> {"MONOID"; "LMODULE"; "MODULE"; "BMODULE"; "RMODULE"}*/
"UTSODE" -> "UTSCAT"
/*"UTSODE" -> {"UPSCAT"; "PSCAT"; "AMR"; "COMRING"; "CHARZ"; "CHARNZ"}*/
/*"UTSODE" -> {"INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"; "PDRING"}*/
/*"UTSODE" -> {"RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"}*/
/*"UTSODE" -> {"ELEMFUN"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"UTSODE" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"UTSODE" -> {"EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
/*"UTSODE" -> {"KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"; "OM"}*/

"UTSODETL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UTSODETL"]
/*"UTSODETL" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UTSODETL" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"UTSODETL" -> {"LMODULE"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"UTSODETL" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"UTSODETL" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "FRETRCT"}*/

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/*"UTSODETL" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"UTSODETL" -> {"ORDSET"; "KONVERT"; "PATMAB"; "GCDDOM"; "PFECAT"}*/
/*"UTSODETL" -> {"UFD"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"; "EUCDOM"}*/
/*"UTSODETL" -> {"PID"; "FIELD"; "DIVRING"; "LODOCAT"; "OREPCAT"}*/
"UTSODETL" -> "UTSCAT"
/*"UTSODETL" -> {"UPSCAT"; "PSCAT"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"UTSODETL" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "NNI"; "INT"; "SINT"}*/
/*"UTSODETL" -> {"VECTOR"; "IVECTOR"; "IARRAY1"}*/

"UTSSOL" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UTSSOL"]
/*"UTSSOL" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"UTSSOL" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UTSSOL" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"UTSSOL" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"UTSSOL" -> {"UFD"; "DIVRING"}*/
"UTSSOL" -> "UTSCAT"
/*"UTSSOL" -> {"UPSCAT"; "PSCAT"; "AMR"; "CHARZ"; "CHARNZ"; "ELTAB"}*/
/*"UTSSOL" -> {"DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"UTSSOL" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "NNI"; "INT"; "LSAGG"}*/
/*"UTSSOL" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"UTSSOL" -> {"IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "KONVERT"}*/
/*"UTSSOL" -> {"FLAGG"; "ORDSET"; "ELAGG"; "OM"; "UPOLYC"; "POLYCAT"}*/
/*"UTSSOL" -> {"FAMR"; "FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"; "PATMAB"}*/
/*"UTSSOL" -> {"PFECAT"; "DIFEXT"; "STEP"; "LZSTAGG"}*/

"UTS2" [color="#FF4488",href="bookvol10.4.pdf#nameddest=UTS2"]
/*"UTS2" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"UTS2" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
"UTS2" -> "UTSCAT"
/*"UTS2" -> {"UPSCAT"; "PSCAT"; "AMR"; "BMODULE"; "RMODULE"; "COMRING"}*/
/*"UTS2" -> {"ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"}*/
/*"UTS2" -> {"ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"UTS2" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/

"WUTSET" [color="#88FF44",href="bookvol10.3.pdf#nameddest=WUTSET"]
/*"WUTSET" -> {"TSETCAT"; "PSETCAT"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"WUTSET" -> {"CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"WUTSET" -> {"KONVERT"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"WUTSET" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"WUTSET" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"WUTSET" -> {"OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
"WUTSET" -> "RPOLCAT"
/*"WUTSET" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"WUTSET" -> {"FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"; "PATMAB"}*/
/*"WUTSET" -> {"GCDDOM"; "PFECAT"; "UFD"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"WUTSET" -> {"RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"}*/
/*"WUTSET" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"WUTSET" -> {"FLAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"}*/
/*"WUTSET" -> {"CLAGG-"; "BOOLEAN"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"}*/
/*"WUTSET" -> {"SETCAT-"; "BASTYPE-"; "FINITE"}*/

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## Layer18

Depends on: ACFS EXPRSOL FDIVCAT RSETCAT UFPS ULSCCAT UTSSOL Used in  
next layer: EXPRSOL SFRTCAT

— layer18 —

```
LAYER18=\
  ${OUT}/DEFINTEF.o ${OUT}/DEFINTRF.o ${OUT}/DFINTTLS.o ${OUT}/EFULS.o \
  ${OUT}/ESCONT.o ${OUT}/EXPR.o ${OUT}/EXPRSOL.o ${OUT}/EXPR2UPS.o \
  ${OUT}/FACTEXT.o \
  ${OUT}/FDIV.o ${OUT}/FSCINT.o ${OUT}/FSINT.o ${OUT}/FS2EXXP.o \
  ${OUT}/GSERIES.o ${OUT}/HELLFDIV.o ${OUT}/INTDIVP.o \
  ${OUT}/INVLAPLA.o ${OUT}/IR2F.o \
  ${OUT}/IRRF2F.o ${OUT}/LAPLACE.o ${OUT}/LIMITPS.o ${OUT}/LODEEF.o \
  ${OUT}/NODE1.o ${OUT}/NOTTING.o \
  ${OUT}/NTSCAT.o ${OUT}/ODECONST.o ${OUT}/ODEEF.o \
  ${OUT}/ODEINT.o ${OUT}/QCMACK.o ${OUT}/REGSET.o ${OUT}/REP.o \
  ${OUT}/RGCHAIN.o ${OUT}/RSDCMPK.o ${OUT}/SFRTCAT.o ${OUT}/SOLVERAD.o \
  ${OUT}/SULS.o ${OUT}/SUPXS.o ${OUT}/UFPS1.o ${OUT}/ULS.o \
  ${OUT}/ULSCONS.o ${OUT}/UPXS.o ${OUT}/UPXSCONS.o ${OUT}/UTS.o \
  ${OUT}/UTSZ.o \
  layer18done
```

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— layerpic —

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/* layer 18 */
/* depends on: ACFS FDIVCAT RSETCAT UFPS ULSCCAT UTSSOL */

"DEFINTEF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DEFINTEF"]
/*"DEFINTEF" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"DEFINTEF" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"DEFINTEF" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"DEFINTEF" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"DEFINTEF" -> {"ORDSET"; "CHARZ"; "RETRACT"; "LINEXP"; "TRANFUN"}*/
/*"DEFINTEF" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "PRIMCAT"}*/
"DEFINTEF" -> "ACFS"
/*"DEFINTEF" -> {"ACF"; "FIELD"; "UFD"; "DIVRING"; "RADCAT"; "FS"; "ES"}*/
/*"DEFINTEF" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"DEFINTEF" -> {"TYPE"; "PATMAB"; "FRETRACT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"DEFINTEF" -> {"CHARNZ"; "SPFCAT"; "BOOLEAN"; "CACHSET"; "SYMBOL"; "INT"}*/
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/*"DEFINTEF" -> {"REF"; "ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"DEFINTEF" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
/*"DEFINTEF" -> {"LNAGG-"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"DEFINTEF" -> {"OAMON"; "OASGP"; "DIFRING"; "CFCAT"; "REAL"; "STEP"}*/
/*"DEFINTEF" -> {"OM"; "ILIST"; "POLYCAT"; "FAMR"; "AMR"; "PFECAT"}*/
/*"DEFINTEF" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"}*/
/*"DEFINTEF" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"}*/

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"DEFINTRF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=DEFINTRF"]
/*"DEFINTRF" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"DEFINTRF" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"DEFINTRF" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"DEFINTRF" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"DEFINTRF" -> {"ORDSET"; "CHARZ"; "RETRACT"; "LINEXP"; "FS"; "ES"}*/
/*"DEFINTRF" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"DEFINTRF" -> {"PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARNZ"}*/
/*"DEFINTRF" -> {"FIELD"; "UFD"; "DIVRING"; "BOOLEAN"; "POLYCAT"; "FAMR"}*/
/*"DEFINTRF" -> {"AMR"; "PFECAT"; "INT"; "LIST"; "ILIST"; "QFCAT"; "FEVALAB"}*/
/*"DEFINTRF" -> {"ELTAB"; "DIFEXT"; "DIFRING"; "STEP"; "OINTDOM"; "ORDRING"}*/
/*"DEFINTRF" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
"DEFINTRF" -> "ACFS"
/*"DEFINTRF" -> {"ACF"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"DEFINTRF" -> {"AHYP"; "ELEMFUN"; "COMBOPC"; "CFCAT"; "LFCAT"; "PRIMCAT"}*/
/*"DEFINTRF" -> "SPFCAT"*/

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/*"DFINTTLS" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"DFINTTLS" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"DFINTTLS" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET"}*/
/*"DFINTTLS" -> {"RETRACT"; "LINEXP"; "TRANFUN"; "TRIGCAT"; "ATRIG"}*/
/*"DFINTTLS" -> {"HYPCAT"; "AHYP"; "ELEMFUN"}*/
"DFINTTLS" -> "ACFS"
/*"DFINTTLS" -> {"ACF"; "FIELD"; "EUCDOM"; "PID"; "UFD"; "DIVRING"}*/
/*"DFINTTLS" -> {"RADCAT"; "FS"; "ES"; "IEVALAB"; "EVALAB"; "PATAB"}*/
/*"DFINTTLS" -> {"KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"}*/
/*"DFINTTLS" -> {"GROUP"; "PDRING"; "FLINEXP"; "CHARZ"; "CHARNZ"; "NNI"}*/
/*"DFINTTLS" -> {"INT"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"DFINTTLS" -> {"OAMON"; "OASGP"; "DIFRING"; "CFCAT"; "REAL"; "STEP"}*/
/*"DFINTTLS" -> {"OM"; "BOOLEAN"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"DFINTTLS" -> {"LIST"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SYMBOL"; "REF"}*/
/*"DFINTTLS" -> {"ALIST"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"; "POLYCAT"}*/
/*"DFINTTLS" -> {"FAMR"; "AMR"; "PFECAT"; "QFCAT"; "FEVALAB"; "ELTAB"}*/
/*"DFINTTLS" -> {"DIFEXT"; "LSAGG-"; "INS-"}*/

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"EFULS" -> "ULSCCAT"
/*"EFULS" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "RING"; "RNG"}*/
/*"EFULS" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/

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/*"EFULS" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"EFULS" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
/*"EFULS" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
/*"EFULS" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"EFULS" -> {"AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"EFULS" -> {"UFD"; "DIVRING"; "RETRACT"; "QFCAT"; "FEVALAB"; "EVALAB"}*/
/*"EFULS" -> {"IEVALAB"; "DIFEXT"; "FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"}*/
/*"EFULS" -> {"FPATMAB"; "TYPE"; "PATMAB"; "STEP"; "ORDSET"; "OINTDOM"}*/
/*"EFULS" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"}*/
/*"EFULS" -> {"PFECAT"; "UTSCAT"; "NNI"; "INT"; "INS"; "CFCAT"; "PI"}*/
/*"EFULS" -> {"OM"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"}*/
/*"EFULS" -> {"PRIMARR"; "A1AGG-"; "ISTRING"}*/

"ESCONT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=ESCONT"]
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/*"ESCONT" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"ESCONT" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"ESCONT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"ESCONT" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "ORDRING"; "OAGROUP"}*/
/*"ESCONT" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "REAL"; "KONVERT"}*/
/*"ESCONT" -> {"RETRACT"; "RADCAT"; "PATMAB"; "CHARZ"; "DIFRING"; "OM"}*/
/*"ESCONT" -> {"TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
/*"ESCONT" -> {"SPFCAT"; "DFLOAT"; "BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"ESCONT" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"ESCONT" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "INT"}*/
/*"ESCONT" -> {"LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"}*/
/*"ESCONT" -> {"URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "STRING"; "CHAR"}*/
/*"ESCONT" -> {"SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "INS"}*/
/*"ESCONT" -> {"OINTDOM"; "LINEXP"; "CFCAT"; "STEP"; "QFCAT"; "FEVALAB"}*/
/*"ESCONT" -> {"DIFEXT"; "PDRING"; "FLINEXP"; "PATAB"; "FPATMAB"; "CHARNZ"}*/
/*"ESCONT" -> {"PFECAT"; "FS"; "ES"; "FRETRCT"; "GROUP"; "NNI"; "SYMBOL"}*/
/*"ESCONT" -> {"REF"; "ALIST"; "SRAGG-"; "PI"; "VECTCAT"; "A1AGG"}*/
"ESCONT" -> "ACFS"
/*"ESCONT" -> {"ACF"; "COMBOPC"; "LFCAT"; "PRIMCAT"; "VECTOR"; "IVECTOR"}*/
/*"ESCONT" -> {"IARRAY1"; "VECTCAT-"}*/

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/*"EXPR" -> {"PATMAB"; "FRETRCT"; "MONOID"; "SGROUP"; "GROUP"; "ABELMON"}*/
/*"EXPR" -> {"ABELSG"; "ABELGRP"; "CABMON"; "RING"; "RNG"; "LMODULE"}*/
/*"EXPR" -> {"PDRING"; "FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "ALGEBRA"}*/
/*"EXPR" -> {"MODULE"; "BMODULE"; "RMODULE"; "FIELD"; "EUCDOM"; "PID"}*/
/*"EXPR" -> {"GCDDOM"; "INTDOM"; "COMRING"; "ENTIRER"; "UFD"; "DIVRING"}*/
"EXPR" -> "ACFS"
/*"EXPR" -> {"ACF"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"EXPR" -> {"AHYP"; "ELEMFUN"; "COMBOPC"; "CFCAT"; "LFCAT"; "PRIMCAT"}*/
/*"EXPR" -> {"SPFCAT"; "BOOLEAN"; "CACHSET"; "POLYCAT"; "FAMR"; "AMR"}*/
/*"EXPR" -> {"PFECAT"; "SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"}*/
/*"EXPR" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/

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/*"EXPR" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "ILIST"; "LSAGG-"; "STAGG-"}*/
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/*"EXPR" -> {"ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"; "LSAGG-"}*/
/*"EXPR" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG-"}*/
/*"EXPR" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "NNI-"}*/
/*"EXPR" -> {"PI"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT-"; "QFCAT-"}*/
/*"EXPR" -> {"FEVALAB"; "DIFEXT"; "DIFRING"; "STEP"; "OINTDOM"; "ORDRING-"}*/
/*"EXPR" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "REAL"; "UPOLYC-"}*/
/*"EXPR" -> {"INS"; "FPS"; "RNS"; "LF-"}*/

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/*"EXPRSOL" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON-"}*/
/*"EXPRSOL" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE-"}*/
/*"EXPRSOL" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "KONVERT-"}*/
/*"EXPRSOL" -> {"FS"; "ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB-"}*/
/*"EXPRSOL" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING-"}*/
/*"EXPRSOL" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM-"}*/
/*"EXPRSOL" -> {"PID"; "GCDDOM"; "UFD"; "DIVRING"; "UTSCAT"; "UPSCAT-"}*/
/*"EXPRSOL" -> {"PSCAT"; "AMR"; "ELTAB"; "DIFRING"; "RADCAT"; "TRANFUN-"}*/
/*"EXPRSOL" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "SYMBOL-"}*/
/*"EXPRSOL" -> {"INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"; "SINT-"}*/
/*"EXPRSOL" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
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/*"EXPR2UPS" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE-"}*/
/*"EXPR2UPS" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE-"}*/
/*"EXPR2UPS" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "ORDSET-"}*/
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/*"EXPR2UPS" -> {"UFD"; "DIVRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG-"}*/
/*"EXPR2UPS" -> {"HYPCAT"; "AHYP"; "ELEMFUN"; "FS"; "ES"; "IEVALAB-"}*/
/*"EXPR2UPS" -> {"EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"; "PATMAB-"}*/
/*"EXPR2UPS" -> {"FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARZ"; "CHARNZ-"}*/
/*"EXPR2UPS" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON-"}*/
/*"EXPR2UPS" -> {"OASGP"; "DIFRING"; "CFCAT"; "REAL"; "STEP-"}*/
"EXPR2UPS" -> "ULSCCAT"
/*"EXPR2UPS" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "ELTAB"; "QFCAT-"}*/
/*"EXPR2UPS" -> {"FEVALAB"; "DIFEXT"; "PFECAT"; "BOOLEAN"; "STRING-"}*/
/*"EXPR2UPS" -> {"CHAR"; "SINT"; "OUTFORM"; "LIST"; "INT"; "PRIMARR-"}*/
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/*"FACTEXT" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON-"}*/
/*"FACTEXT" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP-"}*/
/*"FACTEXT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA-"}*/

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/*"FACTEXT" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "CHARZ"; "RETRACT"}*/
/*"FACTEXT" -> {"XF"; "VSPACE"; "FPC"; "CHARNZ"; "FINITE"; "UPOLYC"}*/
/*"FACTEXT" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "FRETRCT"; "EVALAB"}*/
/*"FACTEXT" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"FACTEXT" -> {"PATMAB"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
/*"FACTEXT" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"FACTEXT" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"}*/
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/*"FDIV" -> {"ENTIRER"; "UFD"; "DIVRING"; "UPOLYC"; "POLYCAT"; "PDRING"}*/
/*"FDIV" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"FDIV" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"}*/
/*"FDIV" -> {"PATMAB"; "PFECAT"; "ELTAB"; "DIFRING"; "DIFEXT"; "STEP"}*/
/*"FDIV" -> {"FFCAT"; "MONOGEN"; "FRAMALG"; "FINRAGL"; "FINITE"; "FFIELDC"}*/
/*"FDIV" -> {"FPC"; "INT"; "VECTOR"; "IVECTOR"; "IARRAY1"; "VECTCAT"}*/
/*"FDIV" -> {"A1AGG-"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"FDIV" -> {"OAMON"; "OASGP"; "CFCAT"; "REAL"; "OM"; "NNI"; "PI"; "VECTCAT"}*/
/*"FDIV" -> {"A1AGG"; "FLAGG"; "LNAGG"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"FDIV" -> {"ELTAGG"; "CLAGG"; "FLAGG-"; "LNAGG-"; "IXAGG-"; "CLAGG-"}*/
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/*"FSCINT" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"FSCINT" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"FSCINT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"FSCINT" -> {"ORDSET"; "CHARZ"; "RETRACT"; "LINEXP"; "TRANFUN"}*/
/*"FSCINT" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
"FSCINT" -> "ACFS"
/*"FSCINT" -> {"ACF"; "FIELD"; "UFD"; "DIVRING"; "RADCAT"; "FS"; "ES"}*/
/*"FSCINT" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"FSCINT" -> {"PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARNZ"}*/
/*"FSCINT" -> {"INT"; "LIST"; "ILIST"; "COMPCAT"; "MONOGEN"; "FRAMALG"}*/
/*"FSCINT" -> {"FINRAGL"; "FINITE"; "DIFEXT"; "DIFRING"; "FFIELDC"; "FPC"}*/
/*"FSCINT" -> {"STEP"; "FEVALAB"; "ELTAB"; "PFECAT"; "OM"; "LFCAT"}*/
/*"FSCINT" -> {"PRIMCAT"; "BOOLEAN"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"FSCINT" -> {"HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
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/*"FSCINT" -> {"URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "SYMBOL"}*/
/*"FSCINT" -> {"REF"; "ALIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
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/*"FSINT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"FSINT" -> {"ORDSET"; "CHARZ"; "RETRACT"; "LINEXP"; "TRANFUN"}*/
/*"FSINT" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "PRIMCAT"}*/
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/*"FSINT" -> {"ACF"; "FIELD"; "UFD"; "DIVRING"; "RADCAT"; "FS"; "ES"}*/
/*"FSINT" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
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/*"FSINT" -> {"SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"}*/
/*"FSINT" -> {"SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"FSINT" -> {"FLAGG-"; "LNAGG-"; "NNI"; "ILIST"; "COMPCAT"; "MONOGEN"}*/
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/*"FSINT" -> {"OM"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"}*/
/*"FSINT" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"FSINT" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"; "RCAGG-"}*/
/*"FSINT" -> {"IXAGG-"; "CLAGG-"; "CACHSET"; "BOOLEAN"}*/

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/*"FS2EXPXP" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"FS2EXPXP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"FS2EXPXP" -> {"ENTIRER"; "UFD"; "DIVRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"FS2EXPXP" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "FS"; "ES"; "ORDSET"}*/
/*"FS2EXPXP" -> {"RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"}*/
/*"FS2EXPXP" -> {"FPATMAB"; "TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"}*/
/*"FS2EXPXP" -> {"FLINEXP"; "LINEXP"; "CHARZ"; "CHARNZ"; "PI"; "NNI"; "INT"}*/
/*"FS2EXPXP" -> {"INS"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"FS2EXPXP" -> {"OASGP"; "DIFRING"; "CFCAT"; "REAL"; "STEP"; "CACHSET"}*/
/*"FS2EXPXP" -> {"LIST"; "ILIST"; "SYMBOL"; "REF"; "ALIST"; "STRING"}*/
/*"FS2EXPXP" -> {"CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"FS2EXPXP" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "BOOLEAN"; "QFCAT"; "FEVALAB"}*/
/*"FS2EXPXP" -> {"ELTAB"; "DIFEXT"; "PFECAT"; "UPXSCCA"; "UPXSCAT"}*/
/*"FS2EXPXP" -> {"UPSCAT"; "PSCAT"; "AMR"}*/
"FS2EXPXP" -> "ULSCCAT"
/*"FS2EXPXP" -> {"ULSCAT"; "INS-"; "LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"}*/
/*"FS2EXPXP" -> {"OM"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"FS2EXPXP" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"}*/
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/*"GSERIES" -> {"INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"; "PDRING"; "RADCAT"}*/
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/*"GSERIES" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SYMBOL"; "REF"; "ALIST"}*/
/*"GSERIES" -> {"SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"GSERIES" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"GSERIES" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"GSERIES" -> {"ORDSET"; "ELAGG"; "OM"; "PATMAB"; "ILIST"; "LSAGG-"}*/
/*"GSERIES" -> {"STAGG-"; "ELAGG-"; "URAGG-"; "RCAGG-"; "IXAGG-"; "PRIMCAT"}*/
"GSERIES" -> "ACFS"
/*"GSERIES" -> {"ACF"; "FS"; "ES"; "RETRACT"; "PATAB"; "FPATMAB"; "FRETRCT"}*/
/*"GSERIES" -> {"GROUP"; "FLINEXP"; "LINEXP"; "INS"; "OINTDOM"; "ORDRING"}*/
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/*"HELLFDIV" -> {"BASTYPE"; "KOERCE"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
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/*"HELLFDIV" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"HELLFDIV" -> {"KONVERT"; "PATMAB"; "PFECAT"; "ELTAB"; "DIFRING"}*/
/*"HELLFDIV" -> {"DIFEXT"; "STEP"; "FFCAT"; "MONOGEN"; "FRAMALG"; "FINRALG"}*/
/*"HELLFDIV" -> {"FINITE"; "FFIELDC"; "FPC"; "INT"; "SYMBOL"; "REF"; "ALIST"}*/
/*"HELLFDIV" -> {"LIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"}*/
/*"HELLFDIV" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"}*/
/*"HELLFDIV" -> {"BOOLEAN"; "NNI"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"HELLFDIV" -> {"URAGG-"; "QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"}*/
/*"HELLFDIV" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"HELLFDIV" -> {"REAL"; "OM"; "VECTCAT"; "A1AGG"; "FLAGG"; "LNAGG"}*/
/*"HELLFDIV" -> {"IXAGG"; "HOAGG"; "AGG"; "ELTAGG"; "CLAGG"; "VECTOR"}*/
/*"HELLFDIV" -> {"IVECTOR"; "IARRAY1"; "INS"; "CFCAT"; "PI"}*/

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/*"INTDIVP" -> {"INFCLCT"; "DSTRCAT"; "BLMETCT"; "PFORP"; "PARAMP"}*/
/*"INTDIVP" -> {"PRJALGPK"; "LPARSPT"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"INTDIVP" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"INTDIVP" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"INTDIVP" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"INTDIVP" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"; "DIVRING"}*/
/*"INTDIVP" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"INTDIVP" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"INTDIVP" -> {"LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"}*/
/*"INTDIVP" -> {"DIRPCAT"; "IXAGG"; "HOAGG"; "AGG"; "TYPE"; "ELTAGG"}*/
/*"INTDIVP" -> {"ELTAB"; "DIFEXT"; "DIFRING"; "FINITE"; "ORDRING"; "OAGROUP"}*/
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/*INTDIVP" -> {"PSCAT"; "FAMONC"; "RCAGG"; "LSAGG"; "STAGG"; "URAGG"}*/
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/*INVLAPLA" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"}*/
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/*INVLAPLA" -> {"ACF"; "FIELD"; "UFD"; "DIVRING"; "RADCAT"; "FS"; "ES"}*/
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/*IR2F" -> {"ACF"; "FIELD"; "EUCDOM"; "PID"; "UFD"; "DIVRING"; "RADCAT"}*/
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/*"NODE1" -> {"PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "CHARNZ"}*/
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"REP" -> "ACFS"
/*"REP" -> {"ACF"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"REP" -> {"AHYP"; "ELEMFUN"; "COMBOPC"; "LFCAT"; "PRIMCAT"; "SPFCAT"}*/
/*"REP" -> {"ILIST"; "MATCAT"; "ARR2CAT"; "HOAGG"; "AGG"; "PI"; "LSAGG"}*/
/*"REP" -> {"STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"}*/
/*"REP" -> {"FLAGG"; "ELAGG"}*/

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/*"RGCHAIN" -> {"CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"RGCHAIN" -> {"KONVERT"; "ORDFIN"; "ORDSET"; "FINITE"; "GCDDOM"; "INTDOM"}*/
/*"RGCHAIN" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"RGCHAIN" -> {"ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"RGCHAIN" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "RPOLCAT"}*/
/*"RGCHAIN" -> {"POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"}*/
/*"RGCHAIN" -> {"FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"; "PATMAB"}*/
/*"RGCHAIN" -> {"PFECAT"; "UFD"}*/

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/*"RSDCMPK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"RSDCMPK" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"RSDCMPK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"}*/
/*"RSDCMPK" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"}*/
/*"RSDCMPK" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"RSDCMPK" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"RSDCMPK" -> {"KONVERT"; "PATMAB"; "PFECAT"; "UFD"}*/
"RSDCMPK" -> "RSETCAT"
/*"RSDCMPK" -> {"TSETCAT"; "PSETCAT"; "CLAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"RSDCMPK" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"; "IXAGG"}*/
/*"RSDCMPK" -> {"ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"; "INT"; "LIST"}*/
/*"RSDCMPK" -> {"ILIST"; "LSAGG-"; "NNI"; "STAGG-"; "ELAGG-"; "BOOLEAN"}*/
/*"RSDCMPK" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"RSDCMPK" -> {"ISTRING"; "FLAGG-"}*/

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/*"SFRTCAT" -> {"CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"SFRTCAT" -> "KONVERT"*/

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/*"SOLVERAD" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"SOLVERAD" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"SOLVERAD" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"SOLVERAD" -> {"ORDSET"; "CHARZ"; "BOOLEAN"; "FS"; "ES"; "RETRACT"}*/
/*"SOLVERAD" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"}*/
/*"SOLVERAD" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"SOLVERAD" -> {"LINEXP"; "CHARNZ"; "FIELD"; "UFD"; "DIVRING"}*/
"SOLVERAD" -> "ACFS"
/*"SOLVERAD" -> {"ACF"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"SOLVERAD" -> {"AHYP"; "ELEMFUN"; "COMBOPC"; "CFCAT"; "LFCAT"; "PRIMCAT"}*/
/*"SOLVERAD" -> {"SPFCAT"; "SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"}*/
/*"SOLVERAD" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"SOLVERAD" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "POLYCAT"}*/
/*"SOLVERAD" -> {"FAMR"; "AMR"; "PFECAT"; "NNI"; "ILIST"; "LSAGG-"}*/
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/*"SOLVERAD" -> {"AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"}*/
/*"SOLVERAD" -> {"FLAGG"; "ELAGG"; "OM"; "ELAGG-"; "PI"}*/

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/*"SULS" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "BMODULE"; "RMODULE"}*/
/*"SULS" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"SULS" -> {"ENTIRER"; "ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"}*/
/*"SULS" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "FIELD"}*/
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/*"SULS" -> {"LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"}*/
/*"SULS" -> {"STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
/*"SULS" -> {"OAMON"; "OASGP"; "REAL"; "PFECAT"; "INT"; "NNI"; "BOOLEAN"}*/
/*"SULS" -> {"POLYCAT"; "FAMR"; "FRETRCT"; "INS"; "CFCAT"; "UTSCAT"}*/
/*"SULS" -> {"OAMONS"; "FPS"; "RNS"; "UPOLYC"; "OM"}*/

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/*"SUPXS" -> {"FLINEXP"; "LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"SUPXS" -> {"PATMAB"; "STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
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/*"ULS" -> {"ULSCAT"; "UPSCAT"; "PSCAT"; "AMR"; "BMODULE"; "RMODULE"}*/
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/*"ULS" -> {"EUCDOM"; "PID"; "GCDDOM"; "UFD"; "DIVRING"; "RETRACT"}*/
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/*"ULS" -> {"LINEXP"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"; "PATMAB"}*/
/*"ULS" -> {"STEP"; "ORDSET"; "OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"}*/
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/*"ULSCONS" -> {"CHARZ"; "CHARNZ"; "INTDOM"; "ENTIRER"; "ELTAB"; "DIFRING"}*/
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/*"ULSCONS" -> {"AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
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/*"ULSCONS" -> {"IEVALAB"; "DIFEXT"; "FLINEXP"; "LINEXP"; "PATAB"}*/
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/*"ULSCONS" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"}*/
/*"ULSCONS" -> {"ELTAGG"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "ILIST"; "LSAGG-"}*/
/*"ULSCONS" -> {"STAGG-"; "ELAGG-"; "URAGG-"; "RCAGG-"; "IXAGG-"; "PRIMCAT"}*/
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/*"ULSCONS" -> {"ACF"; "FS"; "ES"; "GROUP"; "FPS"; "RNS"; "UPOLYC"}*/

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/*"UPXS" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
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/*"UPXS" -> {"RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"}*/
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/*"UPXS" -> "BOOLEAN"*/
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/*"UPXS" -> {"HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "CLAGG"; "FLAGG"}*/
/*"UPXS" -> {"ELAGG"; "OM"; "LSAGG-"; "SYMBOL"; "REF"; "ALIST"; "STRING"}*/
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/*"UPXSCONS" -> {"BMODULE"; "RMODULE"; "COMRING"; "ALGEBRA"; "MODULE"}*/
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/*"UPXSCONS" -> {"PDRING"; "RADCAT"; "TRANFUN"; "TRIGCAT"; "ATRIG"; "HYPCAT"}*/
/*"UPXSCONS" -> {"AHYP"; "ELEMFUN"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
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/*"UPXSCONS" -> {"RCAGG-"; "IXAGG-"; "PRIMCAT"}*/
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/*"UTS" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
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/*"UTS" -> {"BOOLEAN"; "SINT"; "PI"; "SYMBOL"; "REF"; "ALIST"; "LIST"}*/
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/*"UTS" -> {"FLAGG"; "ELAGG"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"UTS" -> {"URAGG-"; "RCAGG-"; "IXAGG-"; "PRIMCAT"}*/
"UTS" -> "ACFS"
/*"UTS" -> {"ACF"; "FS"; "ES"; "FRETRCT"; "GROUP"; "OAMONS"}*/

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/*"UTSZ" -> {"COMRING"; "ALGEBRA"; "MODULE"; "CHARZ"; "CHARNZ"; "INTDOM"}*/
/*"UTSZ" -> {"ENTIRER"; "ELTAB"; "DIFRING"; "PDRING"; "RADCAT"; "TRANFUN"}*/
/*"UTSZ" -> {"TRIGCAT"; "ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "NNI"; "INT"}*/
/*"UTSZ" -> {"BOOLEAN"; "SINT"; "PI"; "SYMBOL"; "REF"; "ALIST"; "LIST"}*/
/*"UTSZ" -> {"STRING"; "CHAR"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"}*/
/*"UTSZ" -> {"SRAGG"; "FLAGG-"; "LNAGG-"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"UTSZ" -> {"UFD"; "DIVRING"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"UTSZ" -> {"OCAMON.o"; "OAMON"; "OASGP"; "ORDSET"; "KONVERT"; "RETRACT"}*/
/*"UTSZ" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "STEP"; "QFCAT"; "FEVALAB"}*/
/*"UTSZ" -> {"EVALAB"; "IEVALAB"; "DIFEXT"; "FLINEXP"; "PATAB"; "FPATMAB"}*/
/*"UTSZ" -> {"TYPE"; "PFECAT"; "OM"; "PRIMCAT"}*/
"UTSZ" -> "ACFS"
/*"UTSZ" -> {"ACF"; "FS"; "ES"; "FRETRCT"; "GROUP"; "ILIST"; "OAMONS"}*/

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## Layer19

Depends on: EXPRSOL SFRTCAT FACTEXT INTDIVP DTP

Next layer depends on: RECOPI

— layer19 —



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  ${OUT}/IRURPK.o  ${OUT}/LAZM3PK.o  ${OUT}/LEXTRIPK.o  ${OUT}/NORMPK.o \
  ${OUT}/PACEXT.o \
  ${OUT}/RECOP.o  ${OUT}/RURPK.o  ${OUT}/SFRGCD.o  ${OUT}/SFQCMPI.o \
  ${OUT}/SNTSCAT.o  ${OUT}/SRDCMPI.o  ${OUT}/SREGSET.o  ${OUT}/ZDSOLVE.o \
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—————

— layerpic —

/* layer 19 */
/* EXPRSOL SFRTCAT */

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/*"GPAFF" -> {"LIST"; "ILIST"; "INS"; "OINTDOM"; "CFCAT"; "REAL"; "STEP"}*/
/*"GPAFF" -> {"LSAGG"; "STAGG"; "URAGG"; "LNAGG"; "CLAGG"; "FLAGG"; "ELAGG"}*/
/*"GPAFF" -> {"OM"; "NNI"; "LSAGG-"; "STAGG-"; "ORDFIN"; "LOGIC"; "ELAGG-"}*/
/*"GPAFF" -> {"FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
/*"GPAFF" -> {"HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"; "SETCAT-"; "BASTYPE-"}*/
/*"GPAFF" -> {"PI"; "FFIELDC"; "FPC"; "MONOID-"; "ABELMON-"; "SGROUP-"}*/
/*"GPAFF" -> {"ABELSG-"; "SINT"; "OUTFORM"}*/

"IRURPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=IRURPK"]
/*"IRURPK" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"IRURPK" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"IRURPK" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"IRURPK" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"IRURPK" -> {"CHARZ"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"IRURPK" -> {"RPOLCAT"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARNZ"}*/

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/*"IRURPK" -> {"FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"IRURPK" -> {"LINEXP"; "KONVERT"; "PATMAB"; "PFECAT"; "UFD"}*/
"IRURPK" -> "SFRTCAT"
/*"IRURPK" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"; "HOAGG"; "AGG"}*/
/*"IRURPK" -> {"TYPE"; "NNI"; "INT"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"IRURPK" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"}*/
/*"IRURPK" -> {"LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"}*/
/*"IRURPK" -> {"URAGG-"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "BOOLEAN"}*/

"LAZM3PK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=LAZM3PK"]
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/*"LAZM3PK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"LAZM3PK" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"LAZM3PK" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"; "OCAMON"; "OAMON"}*/
/*"LAZM3PK" -> {"OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"LAZM3PK" -> {"AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"LAZM3PK" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"LAZM3PK" -> {"PFECAT"; "UFD"; "RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"}*/
/*"LAZM3PK" -> {"HOAGG"; "AGG"; "TYPE"}*/
"LAZM3PK" -> "SFRTCAT"
/*"LAZM3PK" -> {"INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"LAZM3PK" -> {"FLAGG-"; "BOOLEAN"}*/

"LEXTRIPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=LEXTRIPK"]
/*"LEXTRIPK" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"LEXTRIPK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"LEXTRIPK" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"LEXTRIPK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "ORDFIN"}*/
/*"LEXTRIPK" -> {"ORDSET"; "FINITE"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"LEXTRIPK" -> {"HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"}*/
/*"LEXTRIPK" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"}*/
/*"LEXTRIPK" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"LEXTRIPK" -> {"ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"}*/
/*"LEXTRIPK" -> {"IXAGG-"; "CLAGG-"; "BOOLEAN"}*/
"LEXTRIPK" -> "SFRTCAT"
/*"LEXTRIPK" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"}*/

"NORMPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=NORMPK"]
/*"NORMPK" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"NORMPK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"NORMPK" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"NORMPK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"; "OCAMON"}*/
/*"NORMPK" -> {"OAMON"; "OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"; "PDRING"}*/
/*"NORMPK" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"NORMPK" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"NORMPK" -> {"PFECAT"; "UFD"; "RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"}*/
/*"NORMPK" -> {"HOAGG"; "AGG"; "TYPE"}*/
"NORMPK" -> "SFRTCAT"
/*"NORMPK" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "LIST"; "INT"; "PRIMARR"}*/
/*"NORMPK" -> {"A1AGG-"; "ISTRING"; "NNI"; "BOOLEAN"; "ILIST"}*/

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/*"NORMPK" -> {"LSAGG-"; "STAGG-"}*/

"PACEXT" [color="#88FF44",href="bookvol10.3.pdf#nameddest=PACEXT"]
/*"PACEXT" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"PACEXT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PACEXT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PACEXT" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"PACEXT" -> {"DIVRING"; "CHARZ"; "RETRACT"; "XF"; "VSPACE"; "FPC"}*/
/*"PACEXT" -> {"CHARNZ"; "FINITE"; "PI"; "NNI"; "INT"; "LIST"; "ILIST"}*/
/*"PACEXT" -> {"LSAGG-"; "STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"}*/
/*"PACEXT" -> {"RCAGG-"; "IXAGG-"; "CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"}*/
/*"PACEXT" -> {"ELTAGG-"; "SETCAT-"; "BASTYPE-"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"PACEXT" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"PACEXT" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"PACEXT" -> {"FLAGG"; "ORDSET"; "ELAGG"; "OM"; "VECTOR"; "IVECTOR"}*/
/*"PACEXT" -> {"IARRAY1"; "VECTCAT-"; "A1AGG-"; "UPOLYC"; "POLYCAT"}*/
/*"PACEXT" -> {"PDRING"; "FAMR"; "AMR"; "FRETRCT"; "FLINEXP"; "LINEXP"}*/
/*"PACEXT" -> {"PATMAB"; "PFECAT"; "DIFRING"; "DIFEXT"; "STEP"; "SYMBOL"}*/
/*"PACEXT" -> {"REF"; "ALIST"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"PACEXT" -> {"PRIMARR"; "ISTRING"; "SRAGG-"; "INS"; "OINTDOM"; "ORDRING"}*/
/*"PACEXT" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "CFCAT"; "REAL"}*/
/*"PACEXT" -> {"BOOLEAN"; "QFCAT"; "FEVALAB"; "PATAB"; "FPATMAB"; "PACPERC"}*/
/*"PACEXT" -> {"PACRATC"; "PACRAT"}*/
"PACEXT" -> "FACTEXT"

"RECOP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RECOP"]
"RECOP" -> "EXPRSOL" /* by loadlib */
/*"RECOP" -> {"UFPS"; "UTSSOL"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"RECOP" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"RECOP" -> {"ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"RECOP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "KONVERT"; "FS"}*/
/*"RECOP" -> {"ES"; "RETRACT"; "IEVALAB"; "EVALAB"; "PATAB"; "FPATMAB"}*/
/*"RECOP" -> {"TYPE"; "PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"RECOP" -> {"LINEXP"; "CHARZ"; "CHARNZ"; "FIELD"; "EUCDOM"; "PID"}*/
/*"RECOP" -> {"GCDDOM"; "UFD"; "DIVRING"; "COMBOPC"; "CFCAT"; "SYMBOL"}*/
/*"RECOP" -> {"INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"; "SINT"}*/
/*"RECOP" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"; "FLAGG-"}*/
/*"RECOP" -> {"LNAGG-"; "PI"; "NNI"; "ILIST"; "LSAGG-"; "STAGG-"; "LSAGG"}*/
/*"RECOP" -> {"STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"}*/
/*"RECOP" -> {"ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "ELAGG-"}*/
/*"RECOP" -> {"URAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"; "MONOID-"; "ABELMON-"}*/
/*"RECOP" -> {"ORDSET-"; "SGROUP-"; "ABELSG-"; "SETCAT-"; "BASTYPE-"}*/
/*"RECOP" -> {"UPOLYC"; "POLYCAT"; "FAMR"; "AMR"; "PFECAT"; "DIFRING"}*/
/*"RECOP" -> {"DIFEXT"; "STEP"; "BOOLEAN"; "CACHSET"; "INS-"}*/

"RURPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=RURPK"]
/*"RURPK" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"RURPK" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/
/*"RURPK" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"RURPK" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"}*/

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/*"RURPK" -> {"SYMBOL"; "INT"; "REF"; "ALIST"; "LIST"; "STRING"; "CHAR"}*/
/*"RURPK" -> {"SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*"RURPK" -> {"FLAGG-"; "LNAGG-"; "ILIST"; "LSAGG-"; "STAGG-"; "ELAGG-"}*/
/*"RURPK" -> {"ORDFIN"; "ORDSET"; "FINITE"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"RURPK" -> {"RCAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
/*"RURPK" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"}*/
/*"RURPK" -> {"FLAGG"; "ELAGG"; "OM"; "URAGG-"; "RCAGG-"; "IXAGG-"}*/
/*"RURPK" -> {"CLAGG-"; "BOOLEAN"}*/
"RURPK" -> "SFRTCAT"
/*"RURPK" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"}*/

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/*"SFRGCD" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"}*/
/*"SFRGCD" -> {"SGROUP"; "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"}*/
/*"SFRGCD" -> {"ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"; "OCAMON"; "OAMON"}*/
/*"SFRGCD" -> {"OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"SFRGCD" -> {"AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"}*/
/*"SFRGCD" -> {"IEVALAB"; "FLINEXP"; "LINEXP"; "KONVERT"; "PATMAB"}*/
/*"SFRGCD" -> {"PFECAT"; "UFD"; "RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"}*/
/*"SFRGCD" -> {"HOAGG"; "AGG"; "TYPE"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"}*/
/*"SFRGCD" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"}*/
/*"SFRGCD" -> {"BOOLEAN"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"SFRGCD" -> {"INS-"; "NNI"; "ELAGG-"; "FLAGG-"; "OM"}*/
"SFRGCD" -> "SFRTCAT"

"SFQCMPPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SFQCMPPK"]
/*"SFQCMPPK" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SFQCMPPK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"SFQCMPPK" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"SFQCMPPK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"}*/
/*"SFQCMPPK" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"}*/
/*"SFQCMPPK" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"SFQCMPPK" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"SFQCMPPK" -> {"KONVERT"; "PATMAB"; "PFECAT"; "UFD"; "RSETCAT"; "TSETCAT"}*/
/*"SFQCMPPK" -> {"PSETCAT"; "CLAGG"; "HOAGG"; "AGG"; "TYPE"; "INT"; "LIST"}*/
/*"SFQCMPPK" -> {"ILIST"; "LSAGG-"; "STAGG-"; "LSAGG"; "STAGG"; "URAGG"}*/
/*"SFQCMPPK" -> {"RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"}*/
/*"SFQCMPPK" -> {"ELAGG"; "OM"; "ELAGG-"; "FLAGG-"; "STRING"; "CHAR"; "SINT"}*/
/*"SFQCMPPK" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "NNI"; "BOOLEAN"}*/
"SFQCMPPK" -> "SFRTCAT"
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"NTSCAT" [color="#4488FF",href="bookvol10.2.pdf#nameddest=NTSCAT"]
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/*"NTSCAT" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"; "SETCAT"; "BASTYPE"}*/
/*"NTSCAT" -> {"KOERCE"; "CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"NTSCAT" -> {"IEVALAB"; "KONVERT"; "NTSCAT"}*/

"SRDCMPK" [color="#FF4488",href="bookvol10.4.pdf#nameddest=SRDCMPK"]

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/*"SRDCMPK" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"SRDCMPK" -> {"CABMON"; "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"}*/
/*"SRDCMPK" -> {"KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"SRDCMPK" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "OAMONS"}*/
/*"SRDCMPK" -> {"OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "RPOLCAT"; "POLYCAT"}*/
/*"SRDCMPK" -> {"PDRING"; "FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"}*/
/*"SRDCMPK" -> {"RETRACT"; "EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"}*/
/*"SRDCMPK" -> {"KONVERT"; "PATMAB"; "PFECAT"; "UFD"}*/
"SRDCMPK" -> "SFRTCAT"
/*"SRDCMPK" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"; "HOAGG"; "AGG"}*/
/*"SRDCMPK" -> {"TYPE"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"SRDCMPK" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"; "INT"}*/
/*"SRDCMPK" -> {"LIST"; "ILIST"; "LSAGG-"; "NNI"; "STAGG-"; "ELAGG-"}*/
/*"SRDCMPK" -> {"BOOLEAN"; "STRING"; "CHAR"; "SINT"; "OUTFORM"}*/
/*"SRDCMPK" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "FLAGG-"}*/

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/*"SREGSET" -> {"KOERCE"; "CLAGG"; "HOAGG"; "AGG"; "TYPE"; "EVALAB"}*/
/*"SREGSET" -> {"IEVALAB"; "KONVERT"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"SREGSET" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"SREGSET" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"SREGSET" -> {"MODULE"; "ENTIRER"; "OAMONS"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"SREGSET" -> {"ORDSET"; "RPOLCAT"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"}*/
/*"SREGSET" -> {"CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"; "FLINEXP"; "LINEXP"}*/
/*"SREGSET" -> {"PATMAB"; "PFECAT"; "UFD"; "INT"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"SREGSET" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"}*/
/*"SREGSET" -> {"IXAGG-"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"SREGSET" -> {"IXAGG"; "ELTAGG"; "ELTAB"; "FLAGG"; "ELAGG"; "OM"}*/
/*"SREGSET" -> {"BOOLEAN"; "CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"}*/
/*"SREGSET" -> {"SETCAT-"; "BASTYPE-"; "NNI"; "MONOID-"; "ABELMON-"}*/
/*"SREGSET" -> {"SGROUP-"; "ABELSG-"; "INS-"; "STRING"; "CHAR"; "SINT"}*/
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/*"ZDSOLVE" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "ABELMON"; "ABELSG"; "CABMON"}*/
/*"ZDSOLVE" -> {"ABELGRP"; "RING"; "RNG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"ZDSOLVE" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "BMODULE"}*/
/*"ZDSOLVE" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "CHARZ"; "REAL"}*/
/*"ZDSOLVE" -> {"KONVERT"; "INT"; "LIST"; "ILIST"; "LSAGG-"; "STAGG-"}*/
/*"ZDSOLVE" -> {"ELAGG-"; "FLAGG-"; "URAGG-"; "ORDFIN"; "FINITE"; "BOOLEAN"}*/
/*"ZDSOLVE" -> {"RSETCAT"; "TSETCAT"; "PSETCAT"; "CLAGG"; "HOAGG"}*/
/*"ZDSOLVE" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"}*/
"ZDSOLVE" -> "SFRTCAT"
/*"ZDSOLVE" -> {"QFCAT"; "FIELD"; "UFD"; "DIVRING"; "RETRACT"; "FEVALAB"}*/
/*"ZDSOLVE" -> {"ELTAB"; "DIFEXT"; "DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"ZDSOLVE" -> {"PATAB"; "FPATMAB"; "PATMAB"; "STEP"; "OINTDOM"; "CHARNZ"}*/
/*"ZDSOLVE" -> {"PFECAT"; "RCFIELD"; "FRETRCT"; "RADCAT"; "LSAGG"; "STAGG"}*/

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/*"ZDSOLVE" -> {"URAGG"; "RCAGG"; "LNAGG"; "IXAGG"; "ELTAGG"; "FLAGG"}*/
/*"ZDSOLVE" -> {"ELAGG"; "OM"; "LNAGG-"; "RCAGG-"; "IXAGG-"; "CLAGG-"}*/
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## Layer20

Depends on: RECOP Next layer depends on: GUESS

— layer20 —

```
LAYER20=\
  ${OUT}/GUESS.o ${OUT}/INFCLSPT.o \
  layer20done
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— layerpic —

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/* layer 20 */
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"GUESS" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESS"]
/*"GUESS" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXPR"; "UTSSOL"}*/
/*"GUESS" -> {"EXPRSOL"; "GOPT"; "GOPTO"; "UFPS"}*/
"GUESS" -> "RECOP" /* by loadlib */
/*"GUESS" -> {"UFPS1"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"}*/
/*"GUESS" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"}*/
/*"GUESS" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"GUESS" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"GUESS" -> {"ENTIRER"; "UFD"; "DIVRING"; "FS"; "ES"; "ORDSET"; "RETRACT"}*/
/*"GUESS" -> {"IEVALAB"; "EVALAB"; "PATAB"; "KONVERT"; "FPATMAB"; "TYPE"}*/
/*"GUESS" -> {"PATMAB"; "FRETRCT"; "GROUP"; "PDRING"; "FLINEXP"; "LINEXP"}*/
/*"GUESS" -> {"CHARZ"; "CHARNZ"; "COMBOPC"; "CFCAT"; "LSAGG"; "STAGG"}*/
/*"GUESS" -> {"URAGG"; "RCAGG"; "HOAGG"; "AGG"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"GUESS" -> {"ELTAB"; "CLAGG"; "FLAGG"; "ELAGG"; "OM"; "INT"; "LIST"}*/
/*"GUESS" -> {"ILIST"; "PI"; "NNI"; "LSAGG-"; "STAGG-"; "SINT"; "INS-"}*/
/*"GUESS" -> {"EUCDOM-"; "UFD-"; "GCDDOM-"; "INTDOM-"; "ALGEBRA-"}*/
/*"GUESS" -> {"DIFRING-"; "ORDRING-"; "MODULE-"; "RING-"; "ABELGRP-"}*/
/*"GUESS" -> {"ABELMON-"; "QFCAT"; "FEVALAB"; "DIFEXT"; "DIFRING"; "STEP"}*/
/*"GUESS" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"GUESS" -> {"REAL"; "PFECAT"; "ORDFIN"; "FINITE"; "POLYCAT"; "FAMR"}*/
/*"GUESS" -> {"AMR"; "UPOLYC"; "STRING"; "CHAR"; "OUTFORM"; "PRIMARR"}*/
/*"GUESS" -> {"A1AGG-"; "ISTRING"; "SRAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"}*/
/*"GUESS" -> {"UTSCAT"; "UPSCAT"; "PSCAT"; "RADCAT"; "TRANFUN"; "TRIGCAT"}*/
/*"GUESS" -> {"ATRIG"; "HYPCAT"; "AHYP"; "ELEMFUN"; "INS"; "VECTOR"}*/
/*"GUESS" -> {"BOOLEAN"; "SYMBOL"; "REF"; "ALIST"; "LNAGG-"; "MONOID-"}*/
```

```

/*"GUESS" -> {"ORDSET-"; "ABELSG-"; "SGROUP-"; "SETCAT-"; "RETRACT-"}*/
/*"GUESS" -> {"BASTYPE-"; "IVECTOR"; "IARRAY1"; "VECTCAT-"; "IXAGG-"}*/
/*"GUESS" -> {"RCAGG-"; "CLAGG-"}*/

"INFCLSPT" [color="#88FF44",href="bookvol10.3.pdf#nameddest=INFCLSPT"]
"INFCLSPT" -> "INFCLCT"
/*"INFCLSPT" -> {"SETCATD"; "AFFPL"; "SETCAT"; "BASTYPE"; "KOERCE"; "FIELD"}*/
/*"INFCLSPT" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"INFCLSPT" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"}*/
/*"INFCLSPT" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"INFCLSPT" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "POLYCAT"; "PDRING"}*/
/*"INFCLSPT" -> {"FAMR"; "AMR"; "CHARZ"; "CHARNZ"; "FRETRCT"; "RETRACT"}*/
/*"INFCLSPT" -> {"EVALAB"; "IEVALAB"; "FLINEXP"; "LINEXP"; "ORDSET"}*/
/*"INFCLSPT" -> {"KONVERT"; "PATMAB"; "PFECAT"; "DIRPCAT"; "IXAGG"; "HOAGG"}*/
/*"INFCLSPT" -> {"AGG"; "TYPE"; "ELTAGG"; "ELTAB"; "DIFEXT"; "DIFRING"}*/
/*"INFCLSPT" -> {"FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"INFCLSPT" -> {"OAMONS"; "VSPACE"; "PRSPCAT"; "LOCPOWC"; "UPSCAT"; "PSCAT"}*/
/*"INFCLSPT" -> {"PLACESC"; "DIVCAT"; "FAMONC"; "BLMETCT"; "SINT"; "NNI"}*/
/*"INFCLSPT" -> {"INT"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "LNAGG"}*/
/*"INFCLSPT" -> {"CLAGG"; "FLAGG"; "ELAGG"; "OM"; "LIST"; "ILIST"; "LSAGG-"}*/
/*"INFCLSPT" -> {"STAGG-"; "ELAGG-"; "FLAGG-"; "URAGG-"; "LNAGG-"; "RCAGG-"}*/
/*"INFCLSPT" -> {"IXAGG-"; "CLAGG-"; "HOAGG-"; "ORDSET-"; "AGG-"; "ELTAGG-"}*/
/*"INFCLSPT" -> {"SETCAT-"; "BASTYPE-"; "BOOLEAN"; "VECTOR"; "PACPERC"; "PI"}*/
/*"INFCLSPT" -> {"SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"; "OUTFORM"}*/
/*"INFCLSPT" -> {"PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/

```

---

## Layer21

Depends on: GUESS Next layer depends on: GUESSF1 INFCLSPT

— layer21 —

```

LAYER21=\
  ${OUT}/GUESSAN.o  ${OUT}/GUESSINT.o  ${OUT}/GUESSF1.o  ${OUT}/GUESSP.o \
  ${OUT}/GUESSUP.o  ${OUT}/ICP.o      \
  layer21done

```

---

— layerpic —

```

/* layer 21 */
/* GUESS */

```

```

"GUESSAN" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSAN"]
/*"GUESSAN" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXPR"; "UTSSOL"}*/
/*"GUESSAN" -> {"EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1"}*/
"GUESSAN" -> "GUESS" /* by loadlib */
/*"GUESSAN" -> {"ES"; "ORDSET"; "SETCAT"; "BASTYPE"; "KOERCE"; "RETRACT"}*/
/*"GUESSAN" -> {"IEVALAB"; "EVALAB"; "ACF"; "FIELD"; "EUCDOM"; "PID"}*/
/*"GUESSAN" -> {"GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"}*/
/*"GUESSAN" -> {"CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"GUESSAN" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"GUESSAN" -> {"DIVRING"; "RADCAT"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP"}*/
/*"GUESSAN" -> {"OCAMON"; "OAMON"; "OASGP"; "DIFRING"; "KONVERT"; "LINEXP"}*/
/*"GUESSAN" -> {"PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "STEP"; "FS"; "PATAB"}*/
/*"GUESSAN" -> {"FPATMAB"; "TYPE"; "FRETRACT"; "GROUP"; "PDRING"; "FLINEXP"}*/
/*"GUESSAN" -> {"CHARNZ"; "OM"}*/

"GUESSINT" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSINT"]
/*"GUESSINT" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXPR"; "UTSSOL"}*/
/*"GUESSINT" -> {"EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1"}*/
"GUESSINT" -> "GUESS" /* by loadlib */
/*"GUESSINT" -> {"INS"; "INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"GUESSINT" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"GUESSINT" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"}*/
/*"GUESSINT" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"}*/
/*"GUESSINT" -> {"ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"}*/
/*"GUESSINT" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"}*/
/*"GUESSINT" -> {"DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"GUESSINT" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "QFCAT"; "FIELD"}*/
/*"GUESSINT" -> {"DIVRING"; "FEVALAB"; "ELTAB"; "EVALAB"; "IEVALAB"}*/
/*"GUESSINT" -> {"DIFEXT"; "PDRING"; "FLINEXP"; "PATAB"; "FPATMAB"; "TYPE"}*/
/*"GUESSINT" -> {"CHARNZ"; "PFECAT"; "FS"; "ES"; "FRETRACT"; "GROUP"; "OM"}*/

"GUESSF1" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSF1"]
/*"GUESSF1" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXPR"; "UTSSOL"}*/
/*"GUESSF1" -> {"EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1"}*/
"GUESSF1" -> "GUESS" /* by loadlib */
/*"GUESSF1" -> {"FFIELDC"; "FPC"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM"}*/
/*"GUESSF1" -> {"INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"}*/
/*"GUESSF1" -> {"ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"}*/
/*"GUESSF1" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"}*/
/*"GUESSF1" -> {"MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"; "FINITE"}*/
/*"GUESSF1" -> {"STEP"; "DIFRING"; "KONVERT"; "INS"; "OINTDOM"; "ORDRING"}*/
/*"GUESSF1" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "RETRACT"}*/
/*"GUESSF1" -> {"LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"}*/

"GUESSP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSP"]
/*"GUESSP" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXPR"; "UTSSOL"} */
/*"GUESSP" -> {"EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1"}*/
"GUESSP" -> "GUESS" /* by loadlib */
/*"GUESSP" -> {"INS"; "UFD"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"}*/
/*"GUESSP" -> {"RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SETCAT"}*/

```



```

/*"GUESSP" -> {"BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"; "BMODULE"}*/
/*"GUESSP" -> {"RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "EUCDOM"; "PID"}*/
/*"GUESSP" -> {"OINTDOM"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"}*/
/*"GUESSP" -> {"ORDSET"; "DIFRING"; "KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"}*/
/*"GUESSP" -> {"CFCAT"; "REAL"; "CHARZ"; "STEP"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"GUESSP" -> {"AMR"; "CHARNZ"; "FRETRCT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"GUESSP" -> {"PFECAT"; "QFCAT"; "FIELD"; "DIVRING"; "FEVALAB"; "ELTAB"}*/
/*"GUESSP" -> {"DIFEXT"; "PATAB"; "FPATMAB"; "TYPE"; "FS"; "ES"}*/
/*"GUESSP" -> {"GROUP"; "OM"}*/

```

```

"GUESSUP" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSUP"]
/*"GUESSUP" -> {"NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUPEXP"; "UTSSOL"} */
/*"GUESSUP" -> {"EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1"} */
"GUESSUP" -> "GUESS"
/*"GUESSUP" -> {"MYEXPR"; "MYUP"; "INS"; "UFD"; "GCDDOM"; "INTDOM"} */
/*"GUESSUP" -> {"COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"} */
/*"GUESSUP" -> {"ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"} */
/*"GUESSUP" -> {"MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"} */
/*"GUESSUP" -> {"MODULE"; "ENTIRER"; "EUCDOM"; "PID"; "OINTDOM"; "ORDRING"} */
/*"GUESSUP" -> {"OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "DIFRING"} */
/*"GUESSUP" -> {"KONVERT"; "RETRACT"; "LINEXP"; "PATMAB"; "CFCAT"; "REAL"}*/
/*"GUESSUP" -> {"CHARZ"; "STEP"; "UPOLYC"; "POLYCAT"; "PDRING"; "FAMR"}*/
/*"GUESSUP" -> {"AMR"; "CHARNZ"; "FRETRCT"; "EVALAB"; "IEVALAB"; "FLINEXP"}*/
/*"GUESSUP" -> {"PFECAT"; "ELTAB"; "DIFEXT"; "FIELD"; "DIVRING"; "QFCAT"}*/
/*"GUESSUP" -> {"FEVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "FS"; "ES"}*/
/*"GUESSUP" -> {"GROUP"; "COMBOPC"}*/

```

```

"ICP" [color="#88FF44",href="bookvol10.3.pdf#nameddest=ICP"]
/*"ICP" -> {"DIVCAT"; "PROJPL"; "NSDPS"; "DIV"}*/
"ICP" -> "PLACES"
"ICP" -> "INFCLSPT"
/*"ICP" -> {"INFCLCT"; "SETCATD"; "SETCAT"; "BASTYPE"; "KOERCE"; "FIELD"}*/
/*"ICP" -> {"EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"}*/
/*"ICP" -> {"ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID"}*/
/*"ICP" -> {"LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"}*/
/*"ICP" -> {"UFD"; "DIVRING"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"}*/
/*"ICP" -> {"AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG"; "IXAGG"; "ELTAGG"}*/
/*"ICP" -> {"ELTAB"; "CLAGG"; "KONVERT"; "FLAGG"; "ORDSET"; "ELAGG"; "OM"}*/
/*"ICP" -> {"INT"; "LIST"; "ILIST"; "DIRPCAT"; "FRETRCT"; "RETRACT"}*/
/*"ICP" -> {"DIFEXT"; "DIFRING"; "PDRING"; "FLINEXP"; "LINEXP"; "FINITE"}*/
/*"ICP" -> {"ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"; "OASGP"; "OAMONS"}*/
/*"ICP" -> {"VSPACE"; "PLACESC"; "BLMETCT"; "SYMBOL"; "REF"; "ALIST"}*/
/*"ICP" -> {"STRING"; "CHAR"; "SINT"; "OUTFORM"; "PRIMARR"; "A1AGG-"}*/
/*"ICP" -> {"ISTRING"; "SRAGG-"; "FLAGG-"; "LNAGG-"; "LSAGG-"; "STAGG-"}*/
/*"ICP" -> {"ELAGG-"; "URAGG-"}*/

```

---

## Layer22

Depends on: GUESSF1  
 — layer22 —

```
LAYER22=\
  ${OUT}/GUESSF.o ${OUT}/INFCLSPS.o \
  layer22done

— layerpic —

/* layer 22 */
/* GUESSF */

"GUESSF" [color="#FF4488",href="bookvol10.4.pdf#nameddest=GUESSF"]
/*"GUESSF" -> { "NEWTON"; "FAMR2"; "FFFG"; "FFFGF"; "SUEXPR" ; "UTSSOL" } */
/*"GUESSF" -> { "EXPRSOL"; "GOPT"; "GOPT0"; "UFPS"; "RECOP"; "UFPS1" } */
/*"GUESSF" -> "GUESS"*/ /* by loadlib */
"GUESSF" -> "GUESSF1" /* by loadlib */
/*"GUESSF" -> { "FFIELDC"; "FPC"; "FIELD"; "EUCDOM"; "PID"; "GCDDOM" } */
/*"GUESSF" -> { "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP"; "CABMON" } */
/*"GUESSF" -> { "ABELMON"; "ABELSG"; "SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP" } */
/*"GUESSF" -> { "MONOID"; "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA" } */
/*"GUESSF" -> { "MODULE"; "ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"; "FINITE" } */
/*"GUESSF" -> { "STEP"; "DIFRING"; "INS"; "OINTDOM"; "ORDRING"; "OAGROUP" } */
/*"GUESSF" -> { "OCAMON"; "OAMON"; "OASGP"; "ORDSET"; "KONVERT"; "RETRACT" } */
/*"GUESSF" -> { "LINEXP"; "PATMAB"; "CFCAT"; "REAL"; "CHARZ"; "FS"; "ES" } */
/*"GUESSF" -> { "IEVALAB"; "EVALAB"; "PATAB"; "FPATMAB"; "TYPE"; "FRETRCT" } */
/*"GUESSF" -> { "GROUP"; "PDRING"; "FLINEXP" } */

"INFCLSPS" [color="#88FF44",href="bookvol10.3.pdf#nameddest=INFCLSPS"]
"INFCLSPS" -> "PROJPLPS"
/*"INFCLSPS" -> { "PACOFF"; "NSDPS"; "PLACESPS"; "DIV"; "DIVCAT"; "INFCLCT" } */
/*"INFCLSPS" -> { "INFCLSPT"; "SETCATD"; "SETCAT"; "BASTYPE"; "KOERCE" } */
/*"INFCLSPS" -> { "PACFFC"; "FFIELDC"; "FPC"; "FIELD"; "EUCDOM"; "PID" } */
/*"INFCLSPS" -> { "GCDDOM"; "INTDOM"; "COMRING"; "RING"; "RNG"; "ABELGRP" } */
/*"INFCLSPS" -> { "CABMON"; "ABELMON"; "ABELSG"; "SGROUP"; "MONOID" } */
/*"INFCLSPS" -> { "LMODULE"; "BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE" } */
/*"INFCLSPS" -> { "ENTIRER"; "UFD"; "DIVRING"; "CHARNZ"; "FINITE"; "STEP" } */
/*"INFCLSPS" -> { "DIFRING"; "PACPERC"; "LSAGG"; "STAGG"; "URAGG"; "RCAGG" } */
/*"INFCLSPS" -> { "HOAGG"; "AGG"; "TYPE"; "EVALAB"; "IEVALAB"; "LNAGG" } */
/*"INFCLSPS" -> { "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "KONVERT"; "FLAGG" } */
/*"INFCLSPS" -> { "ORDSET"; "ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "DIRPCAT" } */
/*"INFCLSPS" -> { "FRETRCT"; "RETRACT"; "DIFEXT"; "PDRING"; "FLINEXP" } */
/*"INFCLSPS" -> { "LINEXP"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON" } */
/*"INFCLSPS" -> { "OASGP"; "OAMONS"; "VSPACE"; "PLACESC"; "BLMETCT" } */
```

```

/*INFCLSPS" -> {"SYMBOL"; "REF"; "ALIST"; "STRING"; "CHAR"; "SINT"}*/
/*INFCLSPS" -> {"OUTFORM"; "PRIMARR"; "A1AGG-"; "ISTRING"; "SRAGG-"}*/
/*INFCLSPS" -> {"FLAGG-"; "LNAGG-"; "LSAGG-"; "STAGG-"; "ELAGG-"; "URAGG-"}*/

```

---

## Layer23

Depends on: INFCLSPS

Note that PAFF and PAFFFF form clique2.spad. Each one depends on the other.

— layer23 —

```

LAYER23=\
  ${MID}/clique2.spad \
  layer23done

```

---

— layerpic —

```

/* layer 23 */

"PAFF" -> "PAFFFF"
"PAFF" -> "INFCLSPS"
/*"PAFF" -> {"BLMETCT"; "GPAFF"; "PFORP"; "PACOFF"; "PROJPLPS"; "PLACESPS"}*/
/*"PAFF" -> {"NSDPS"; "LOCPOWC"; "DIV"; "SETCATD"; "PLACESC"; "DIVCAT"}*/
/*"PAFF" -> {"INFCLCT"; "DSTREE"; "DSTRCAT"; "PRSPCAT"; "UTSZ"; "PACFFC"}*/
/*"PAFF" -> {"PACPERC"; "PROJPL"; "PLACES"; "INFCLSPT"; "PROJPL"; "ICP"}*/
/*"PAFF" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"PAFF" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PAFF" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PAFF" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"PAFF" -> {"DIVRING"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"PAFF" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"PAFF" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"}*/
/*"PAFF" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"PAFF" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"}*/
/*"PAFF" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "DIRPCAT"; "DIFEXT"}*/
/*"PAFF" -> {"DIFRING"; "FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"PAFF" -> {"OASGP"; "OAMONS"; "VSPACE"; "INS"; "OINTDOM"; "CFCAT"; "REAL"}*/
/*"PAFF" -> {"STEP"; "PI"; "NNI"; "BOOLEAN"}*/

"PAFFFF" -> "PAFF"
"PAFF" -> "INFCLSPS"

```

```

/*"PAFF" -> {"BLMETCT"; "GPAFF"; "PFORP"; "PACOFF"; "PROJPLPS"; "PLACESPS"}*/
/*"PAFF" -> {"NSDPS"; "LOCPOWC"; "DIV"; "SETCATD"; "PLACESC"; "DIVCAT"}*/
/*"PAFF" -> {"INFCLCT"; "DSTREE"; "DSTRCAT"; "PRSPCAT"; "UTSZ"; "PACFFC"}*/
/*"PAFF" -> {"PACPERC"; "PROJPL"; "PLACES"; "INFCLSPT"; "PROJPL"; "ICP"}*/
/*"PAFF" -> {"FIELD"; "EUCDOM"; "PID"; "GCDDOM"; "INTDOM"; "COMRING"}*/
/*"PAFF" -> {"RING"; "RNG"; "ABELGRP"; "CABMON"; "ABELMON"; "ABELSG"}*/
/*"PAFF" -> {"SETCAT"; "BASTYPE"; "KOERCE"; "SGROUP"; "MONOID"; "LMODULE"}*/
/*"PAFF" -> {"BMODULE"; "RMODULE"; "ALGEBRA"; "MODULE"; "ENTIRER"; "UFD"}*/
/*"PAFF" -> {"DIVRING"; "POLYCAT"; "PDRING"; "FAMR"; "AMR"; "CHARZ"}*/
/*"PAFF" -> {"CHARNZ"; "FRETRCT"; "RETRACT"; "EVALAB"; "IEVALAB"}*/
/*"PAFF" -> {"FLINEXP"; "LINEXP"; "ORDSET"; "KONVERT"; "PATMAB"; "PFECAT"}*/
/*"PAFF" -> {"LSAGG"; "STAGG"; "URAGG"; "RCAGG"; "HOAGG"; "AGG"; "TYPE"}*/
/*"PAFF" -> {"LNAGG"; "IXAGG"; "ELTAGG"; "ELTAB"; "CLAGG"; "FLAGG"}*/
/*"PAFF" -> {"ELAGG"; "OM"; "INT"; "LIST"; "ILIST"; "DIRPCAT"; "DIFEXT"}*/
/*"PAFF" -> {"DIFRING"; "FINITE"; "ORDRING"; "OAGROUP"; "OCAMON"; "OAMON"}*/
/*"PAFF" -> {"OASGP"; "OAMONS"; "VSPACE"; "INS"; "OINTDOM"; "CFCAT"; "REAL"}*/
/*"PAFF" -> {"STEP"; "PI"; "NNI"; "BOOLEAN"}*/

```

---

## Order

The final order of the layers is determined here. The GUESS package is broken so we remove the layers involved until this can be resolved.

— order —

```

ORDER=\
  ${LAYERBOOTSTRAP}    ${LAYER0}  ${LAYER1}  ${LAYER2}  ${LAYER3}  \
  ${LAYER4}    ${LAYER5}  ${LAYER6}  ${LAYER7}  ${LAYER8}  ${LAYER9}  \
  ${LAYER10}   ${LAYER11} ${LAYER12} ${LAYER13} ${LAYER14} ${LAYER15} \
  ${LAYER16}   ${LAYER17} ${LAYER18} ${LAYER19} ${LAYER20} ${LAYER21} \
  ${LAYER22}   ${LAYER23} ${LAYEROCOPY}

```

---

```

ORDER=\
  ${LAYERBOOTSTRAP}    ${LAYER0}  ${LAYER1}  ${LAYER2}  ${LAYER3}  \
  ${LAYER4}    ${LAYER5}  ${LAYER6}  ${LAYER7}  ${LAYER8}  ${LAYER9}  \
  ${LAYER10}   ${LAYER11} ${LAYER12} ${LAYER13} ${LAYER14} ${LAYER15} \
  ${LAYER16}   ${LAYER17} ${LAYER18} ${LAYER19} ${LAYEROCOPY}

```

## 1.5 Cliques

The algebra code sometimes have circular references. The compiler can resolve these references directly if all of the required sources are in the same source file.

So the idea to remove the BOOTSTRAP code is to cluster the spad sources into "cliqueN.spad" files and feed them all to the compiler at once.

— **newcode** —

```
CLIQUE1FILES = ${OUT}/MYUP.o  ${OUT}/MYEXPR.o

${MID}/clique1.spad: ${CLIQUE1FILES}
@echo sa01 making ${OUT}/MYUP.o from ${MID}/clique1.spad
@echo sa02 making ${OUT}/MYEXPR.o from ${MID}/clique1.spad
@ (cd ${MID} ; \
    cat ${IN}/MYUP.spad >clique1.spad ; \
    cat ${IN}/MYEXPR.spad >>clique1.spad ; \
    if [ -z "${NOISE}" ] ; then \
        echo ")co clique1.spad" | ${INTERPSYS} ; \
        else \
            echo ")co clique1.spad" | ${INTERPSYS} >${TMP}/trace ; \
    fi )
@ cp ${MID}/MYUP.nrllib/code.o ${OUT}/MYUP.o
@ cp ${MID}/MYEXPR.nrllib/code.o ${OUT}/MYEXPR.o
```

Here we have the general case where two files are co-dependent, that is, PAFF and PAFFFF both have to be compiled together. They also have a set of prerequired files that must be loaded since they are not yet in the new database.

— **newcode** —

```
CLIQUE2FILES = ${OUT}/PAFF.o  ${OUT}/PAFFFF.o
CLIQUE2DEPS  = BLMETCT GPAFF PFORP PACOFF PROJPLPS PLACESPS NSDPS LOCPOWC \
                DIV SETCATD PLACESC DIVCAT INFCLSPS INFCLCT DSTREE DSTRCAT \
                PRSPCAT UTSZ PACFFC PACPERC PROJPL PLACES INFCLSPT PROJPL ICP

${MID}/clique2.spad: ${CLIQUE2FILES}
@echo sa03 making ${OUT}/PAFF.o from ${MID}/clique2.spad
@echo sa04 making ${OUT}/PAFFFF.o from ${MID}/clique2.spad
@ (cd ${MID} ; \
    cat ${IN}/PAFF.spad >clique2.spad ; \
    cat ${IN}/PAFFFF.spad >>clique2.spad ; \
    if [ -z "${NOISE}" ] ; then \
        echo -e ")lib ${CLIQUE2DEPS} \n )co clique2.spad" \
            | ${INTERPSYS} ; \
        else \
            echo -e ")lib ${CLIQUE2DEPS} \n )co clique2.spad" \
            | ${INTERPSYS} >${TMP}/trace ; \
        echo ")co clique2.spad" | ${INTERPSYS} >${TMP}/trace ; \
    fi )
@ cp ${MID}/PAFF.nrllib/code.o ${OUT}/PAFF.o
@ cp ${MID}/PAFFFF.nrllib/code.o ${OUT}/PAFFFF.o
```

---

— ignore —

```

EXPRDEPS = LF

${MID}/EXPR.nr/lib/code.o: ${MID}/EXPR.spad
@echo sa05 newcode EXPR.o depends on LF.o
@ ( cd ${MID} ; \
    echo -e ")lib ${EXPRDEPS} \n )co EXPR.spad" | ${INTERPSYS} )
@ cp ${MID}/EXPR.nr/lib/code.o ${OUT}/EXPR.o

```

---

## 1.6 Broken Files

These files are Aldor files

```

axtimer.as Timer
iviews.as InventorRenderPackage IVREND
ffrac.as FormalFraction FORMAL
iviews.as InventorViewPort IVVIEW
iviews.as InventorDataSink IVDATA
herm.as PackedHermitianSequence PACKED
nsfip.as NagSpecialFunctionsInterfacePackage NAGSPE
nrc.as NagResultChecks NAGRES
nqip.as NagQuadratureInterfacePackage NAGQUA
noptip.as NagOptimizationInterfacePackage NAGOPT
nepip.as NagEigenInterfacePackage NAGEIG
ndftip.as NagDiscreteFourierTransformInterfacePackage NAGDIS

```

These domains are referenced but don't exist

OBJECT

## 1.7 The Environment

### The working directories

We define 5 directories for this build. The **IN** directory contains the pamphlet files for the algebra. These are expanded into the **MID** directory as either .spad or .as files. The .spad files are compiled by the native spad internal compiler. The .as files are compiled using the Aldor compiler. The output of the compilation has two purposes. Part of the information is used to build various database files (daase files). The other part is executable code which

is placed in the **OUT** directory. When invoked as “make document” we construct the .dvi files in the **DOC** directory.

The `OUTSRC=${MNT}/${SYS}/src/algebra` subdirectory contains the algebra source files extracted from the pamphlet files. These sources allow the end user to change the algebra if needed.

— environment —

```
IN=${SRC}/algebra
MID=${INT}/algebra
OUT=${MNT}/${SYS}/algebra
DOC=${MNT}/${SYS}/doc/src/algebra
OUTSRC=${MNT}/${SYS}/src/algebra
INPUT=${INT}/input
LISP=${OBJ}/${SYS}/bin/lisp
LISPTANGLE=${OBJ}/${SYS}/bin/lisp
BOOKSRC=${SPD}/books/bookvol5.pamphlet
```

—————

### The depsys variable

The **depsys** image is the compile-time environment for boot and lisp files.

— environment —

```
DEPSYS=${OBJ}/${SYS}/bin/depsys
```

—————

### The interpsys variable

The **interpsys** image is the compile-time environment for algebra files.

— environment —

```
INTERPSYS=${OBJ}/${SYS}/bin/interpsys
```

—————

## The shell variable

We use the “-e” flag to echo which is not supported by the “sh” shell but is supported by “bash”. The “-e” flag to echo causes it to interpret special characters, in our case newlines.

— environment —

`SHELL=bash`

—————

## 1.8 The Makefile Stanzas

A spad pamphlet can contain many Axiom categories, domains, and packages.

For the purpose of explanation we assume that the pamphlet file is named `foo.spad.pamphlet`. It contains the domains `BAR`, `BAX`, and `BAZ`. Thus there will be a subsection named `foo.spad`.

Since pamphlet files (e.g. `foo.spad.pamphlet`) contain a spad file e.g. `foo.spad`, it follows that every subsection contains a Makefile stanza that extract the `foo.spad` file using `notangle`.

Since pamphlet files are intended as documents it follows that each subsection contains a Makefile stanza that extracts a dvi file using `noweave`.

We could have a category, domain, or package that is in the “bootstrap” list. Bootstrap spad files contain their generated lisp code in special sections. The way bootstrapping works is that we extract the lisp code and compile it rather than extracting the spad code. We do this because we need the domain to exist before we can compile the domain. Some domains depend on themselves directly. Some domains depend on themselves thru a long chain of other domains. In either case we can’t compile the domain until it exists so we cache the generated lisp code and, when we need to bootstrap the domain, we compile the raw lisp rather than the spad.

This will only happen when the system is built from scratch. Once the system has been built the bootstrap code is no longer executed and these algebra files will appear as normal algebra files. That means that once the system has been built once only the last three rules will ever be executed. The first two rules happen when the system is built from scratch.

A 5 stanza group for this case performs the following functions:

1. extract the lisp `BAR.lsp` from the pamphlet `foo.spad.pamphlet`
2. compile and copy the bootstrap lisp to the final algebra directory
3. extract the bootstrap `BAR.lsp` from the spad file `foo.spad`
4. compile the extracted `BAR` domain



5. copy the compiled BAR to the final algebra directory

The subtle point here occurs in the first item. The bootstrap code group (in the layer0 bootstrap code chunk above) asks for the compiled “.o” files in the  $\backslash\{\text{MID}\}$  directory. Essentially this code group calls for intermediate compiled files. This triggers the bootstrap stanzas (items 1 and 2 above). All of the other layer chunks ask for compiled code in the  $\backslash\{\text{OUT}\}$  directory which is the final algebra directory.

The bootstrap process works because first we ask for the compiled lisp code stanzas (the  $\backslash\{\text{MID}\}/\text{BAR.o}$  files), THEN we ask for the final algebra code stanzas (the  $\backslash\{\text{OUT}\}/\text{BAR.o}$  files). This is a very subtle point so think it through carefully. The layer0 bootstrap list is the only file list that calls for  $\backslash\{\text{MID}\}$  files. All other layers ask for  $\backslash\{\text{OUT}\}$  files. Make sure you understand this before you change things. If you break it the world will no longer compile.

So we have a 3 stanza group for normal files, a 3+2 (5) stanza group for normal files with default code, and a 3+2 (5) stanza group for normal files that need to be bootstrapped. There is another combination that occurs, namely bootstrap code that also contains default code which gives a 3+2+2+2 (9) stanza case. (see TSETCAT for an example. Be sure to read the items in reverse order).

A 9 stanza group for this case performs the following functions:

1. extract the bootstrap BAR.lsp from the foo.spad.pamphlet
2. compile the bootstrap BAR.lsp and copy to the intermediate directory
3. extract the bootstrap BAR-.lsp from the foo.spad.pamphlet
4. compile the bootstrap BAR-.lsp and copy to intermediate directory
5. extract the spad BAR.spad from the pamphlet foo.spad.pamphlet
6. compile the extracted BAR.spad domain (to get BAR.o)
7. copy the BAR.o to the final algebra directory
8. compile the extracted BAR.spad domain (to get BAR-.o)
9. copy the BAR-.o to the final algebra directory

As you can see this is just the combination of the two possible 5 stanza case. We just have to deal with the BAR- both in regular and bootstrap files. The first four stanzas will only happen when the system is built from scratch. Once the system is built these four rules no longer apply and these stanzas effectively act like the 5 stanza rules above.

I’m sure all of this seems confusing but it is very stylized code. Basically you need to figure out which kind of stanza group you need, copy an existing stanza group, and do a correct renaming of the parts. The decision tree looks something like:

```

IF (you have a regular spad domain)
  THEN use a 3 stanza form (see YSTREAM)
IF (you have a default spad domain (it generates ‘-’ files)) AND
  (it does not require bootstrapping)
  THEN use the first 5 stanza form explained above (see LIECAT)
IF (you have a normal spad domain) AND
  (it requires bootstrapping)
  THEN use the second 5 stanza form explained above (see VECTOR)
IF (you have a default spad domain (it generates ‘-’ files)) AND
  (it requires bootstrapping)
  THEN use the 9 stanza form explained above (see TSETCAT)

```

## 1.9 Generic Make Rules

The idea is to use generic rules to try to cut down the size of this file.

This Makefile works very hard to cache intermediate results in order to minimize the re-build time. The cached files are kept in the `int` or `obj` directories. If one of these files disappears but the original pamphlet file is unchanged we only need to rebuild the intermediate file. These rule will attempt to do that and they succeed however these are intermediate files created by implicit rules so they would normally be deleted. To prevent the removal the `nrlib` directory and its contents, the files are marked as `.PRECIOUS`.

The output of the compile step is saved in a file of the same name and extension `.out` in the `$MID` directory. These files are useful for deriving the dependencies by scanning the “Loading ...” messages.

### — genericDotOfiles —

```

${OUT}/${%.o}: ${MID}/${%.nrlib}/code.o
@ echo sa06 copying ${%.nrlib} to ${%.o}
@ cp ${MID}/${%.nrlib}/code.o ${OUT}/${%.o}

```

### — genericnrlibfiles —

```

.PRECIOUS: ${MID}/${%.nrlib}/code.o
${MID}/${%.nrlib}/code.o: ${MID}/${%.spad}
@ echo sa07 compiling ${%.spad} to ${%.nrlib}
@ if [ -z "${NOISE}" ] ; then \
  (cd ${MID} ; \
    echo ")co ${%.spad}" | ${INTERPSYS} ) ; \
  else \

```

```
(cd ${MID} ; \
  echo ")co ${*.spad} | ${INTERPSYS} ) 1>/dev/null 2>/dev/null ; \
fi
```

---

— genericBOOTSTRAPfiles —

```
${MID}/%.o: ${MID}/%.lsp
@ echo sa08 compiling ${*.lsp} to ${*.o}
@ (cd ${MID} ; \
  if [ -z "${NOISE}" ] ; then \
    echo '(progn (in-package (quote boot)) (compile-file "${*.lsp}" :output-file "${*.o}"))'\
      | ${DEPSYS} ; \
  else \
    echo '(progn (in-package (quote boot)) (compile-file "${*.lsp}" :output-file "${*.o}"))'\
      | ${DEPSYS} 1>/dev/null 2>/dev/null ; \
  fi )
@ cp ${MID}/${*.o} ${OUT}/${*.o}
```

---

— genericSPADfiles —

```
${OUTSRC}/%.spad: ${IN}/%.pamphlet
@ echo sa09tangling ${*.pamphlet} to ${*.spad}
@(cd ${OUTSRC} ; \
  ${TANGLE} ${IN}/${*.pamphlet} >${*.spad} )
```

---

— genericDOCfiles —

```
${DOC}/%.dvi: ${IN}/%.pamphlet ${DOC}/ps
@ echo sa10 latexing ${*.pamphlet} to ${DOC}/${*.dvi}
@ (cd ${DOC} ; \
  cp ${IN}/${*.pamphlet} ${DOC} ; \
  ${DOCUMENT} ${NOISE} $* ; \
  rm -f ${DOC}/${*.pamphlet} ; \
  rm -f ${DOC}/${*.tex} ; \
  rm -f ${DOC}/$* )
```

---

— genericRules —

```
\getchunk{genericDot0files}
\getchunk{genericnrlibfiles}
\getchunk{genericBOOTSTRAPfiles}
\getchunk{genericSPADfiles}
\getchunk{genericDOCfiles}
```

---

— libdb.text (OUT from IN) —

```
${OUT}/libdb.text: ${IN}/libdb.text
@ echo sa11 copying ${IN}/libdb.text to ${OUT}/libdb.text
@ cp ${IN}/libdb.text ${OUT}/libdb.text
```

---

— ps (DOC from SRC) —

```
${DOC}/ps: ${SRC}/doc/ps
@echo sa12 making ${DOC}/ps from ${SRC}/doc/ps
@cp -pr ${SRC}/doc/ps ${DOC}
```

---

## 1.10 Pamphlet file structure

Because the individual .spad files are grouped into higher-level algebra pamphlet files, the rules for extracting them are coded below as simple “awk” scripts that are called when the Makefile is constructed.

— findAlgebraFiles —

```
\getchunk{findSpadFiles}
\getchunk{findBootstrapFiles}
```

---

There are, at present, 2 kinds of algebra files to be handled.

There are the bootstrap files. These files live within their respective pamphlet files and are "captured" lisp code. These are necessary to create the algebra. See the `src/algebra/Makefile.pamphlet` for details.

Second, there are 3 "types" of algebra which are all treated the same at compile time, namely the "domain", "category", and "package" algebra.

## Finding the algebra code

Step 1 is to scan all of the algebra pamphlet files for the chunk names which contain the string "domain", "package", or "category". This is done using `grep -E` (same as `egrep`, which means that the pattern is an extended regular expression) because extended regular expressions allows the use of alternatives written as (domain—package—category). Thus the command

```
grep -E '\begin{chunk} {(domain|package|category)\ .*}' *.pamphlet
```

will scan the algebra files looking for special chunknames. Axiom's chunk names are written in a stylized form so that each algebra chunk name begins with one of those three symbols. Thus in `bookvol10.3.pamphlet` the `LexTriangularPackage` chunkname is:

```
begin{chunk}{package LEXTRIPK LexTriangularPackage}
```

so this `grep` will generate an output line, prefixed by the filename that looks like:

```
bookvol10.3.pamphlet:begin{chunk}{package LEXTRIPK LexTriangularPackage}
```

There can be many lines of output per pamphlet file, one for each domain, package and category cod chunk contained in the file. The results are sorted and made unique.

Step 2 is an `awk` command line.

## Write the Makefile stanzas for the algebra files

— findSpadFiles —

```
grep -E 'begin{chunk}{category\ .*}' ${BOOKS}/bookvol10.2.pamphlet | sort | uniq | awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    spadfile="${MID}/"part[2]".spad";
    print spadfile": ${BOOKS}/bookvol10.2.pamphlet";
    print "      @echo \x27(tangle \"${BOOKS}/bookvol10.2.pamphlet\" \"\"chunk\"\" \"\"part[2]\".spad\")\x27 | ${LI
```

```

    print "";
  },

grep -E 'begin{chunk}{domain\ .*}' ${BOOKS}/bookvol10.3.pamphlet | sort | uniq | awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    spadfile="${MID}/"part[2]".spad";
    print spadfile": ${BOOKS}/bookvol10.3.pamphlet";
    print "      @echo \x27(tangle \"${BOOKS}/bookvol10.3.pamphlet\" \"\"chunk\"\" \"\"part[2]".spad\"")
    print "";
  },

grep -E 'begin{chunk}{package\ .*}' ${BOOKS}/bookvol10.4.pamphlet | sort | uniq | awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    spadfile="${MID}/"part[2]".spad";
    print spadfile": ${BOOKS}/bookvol10.4.pamphlet";
    print "      @echo \x27(tangle \"${BOOKS}/bookvol10.4.pamphlet\" \"\"chunk\"\" \"\"part[2]".spad\"")
    print "";
  },

grep -E 'begin{chunk}{package\ .*}' ${BOOKS}/bookvol10.5.pamphlet | sort | uniq | awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    spadfile="${MID}/"part[2]".spad";
    print spadfile": ${BOOKS}/bookvol10.5.pamphlet";
    print "      @echo \x27(tangle \"${BOOKS}/bookvol10.5.pamphlet\" \"\"chunk\"\" \"\"part[2]".spad\"")
    print "";
  },

```

---

awk processes each line of the grep output.

The awk script uses “-F:” which is a flag that says that a “:” is the field separator. As a result the \$1 and \$2 in the awk script refer to the parts of the grep output that come before and after the “:” respectively.

The variable “chunk” is assigned the actual chunk name minus the ‘\begin{chunk}{’ and ‘}’ delimiters. In the example given above this will become

```
package LEXTRIPK LexTriangularPackage
```

The call to “split” splits the chunk into parts separated by spaces. Thus

```

part[1]=package
part[2]=LEXTRIPK
part[3]=LexTriangularPackage

```

The variable “spadfile” in the above example is set to

```

${MID}/LEXTRIPK.spad

```

Finally, in the domain example given above we print two lines. The first line is the Makefile stanza header which depends on the original “zerodim.spad.pamphlet” file.

The second line is the body of the makefile stanza which calls `notangle` to extract the algebra from the original pamphlet using the chunk name and writes it to the intermediate subdirectory. In the case above this would resolve to `\${MID}/LEXTRIPK.spad`.

For the line given above it outputs the following:

```

${MID}/LEXTRIPK.spad: ${IN}/bookvol10.3.pamphlet
    echo '(tangle "bookvol10.4.pamphlet" "package LEXTRIPK LexTriangularPackage" "LEXTRIPK.spad")' | ${LISP}

```

## Find the algebra bootstrap code

Step 3 works like step 1 above except that we are looking for chunk names that have the “BOOTSTRAP” string. The output will look like:

```

bookvol10.3.pamphlet:begin{chunk}{VECTOR.lsp BOOTSTRAP}

```

This output, which can consist of many lines per input file is piped into “awk”.

## Write the Makefile stanzas for the bootstrap files

For each of the above output lines we run an “grep” command:

— `findBootstrapFiles` —

```

grep 'begin{chunk}{.*BOOTSTRAP}' ${BOOKS}/bookvol10.2.pamphlet | sort | uniq | \
awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    lspfile="${MID}/"part[1];
    print lspfile": ${BOOKS}/bookvol10.2.pamphlet";
    print "    @echo \x27(tangle \"${BOOKS}/bookvol10.2.pamphlet\" \"\"chunk\"\" \"\"lspfile\"\")\x27 | ${LISP}TANGLE";
    print "";
}'

```

```

grep 'begin{chunk}{.*BOOTSTRAP}' ${BOOKS}/bookvol10.3.pamphlet | sort | uniq | \
awk -F: '{
    chunk=substr($1,15,length($1)-15);
    split(chunk,part," ");
    lspfile="${MID}/"part[1];
    print lspfile": ${BOOKS}/bookvol10.3.pamphlet";
    print "    @echo \x27(tangle \"${BOOKS}/bookvol10.3.pamphlet\" \"\"chunk\"\" \"\"lspfile\"\")\x27 | ${LISP}TANGLE";
}'

```

```
    print "";
  },'
```

---

The process is the same way as described above except that there are only two parts to the chunk names

```
    part[1]=VECTOR.lsp
    part[2]=BOOTSTRAP
```

The lspfile variable is assigned

```
$(MID)/VECTOR.lsp
```

Finally we output two lines:

```
$(MID)/vector.spad.pamphlet: ${IN}/bookvol10.3.pamphlet
    @echo '(tangle "${IN}/bookvol10.4.pamphlet" "VECTOR.lsp BOOTSTRAP" "VECTOR.lsp")' | ${LISP}
```

The first line is the stanza head and creates a dependence between the intermediate file, in this case int/algebra/VECTOR.lsp and the input file src/algebra/vector.spad.pamphlet

The second line calls the lisp “tangle” to extract the required chunk from the source file.

## 1.11 Stage markers

We output these as each stage completes.

— stages —

```
layer0bootstrap:
@ echo =====
@ echo === algebra bootstrap complete =====
@ echo =====
```

```
layer0copy:
@ echo =====
@ echo === layer 0 copy complete =====
@ echo =====
```

```
layer0done:
@ echo =====
@ echo === layer 0 of 24 complete =====
@ echo =====
```

```
layer1done:
```



```
@ echo =====
@ echo === layer 1 of 24 complete =====
@ echo =====
```

```
layer2done:
@ echo =====
@ echo === layer 2 of 24 complete =====
@ echo =====
```

```
layer3done:
@ echo =====
@ echo === layer 3 of 24 complete =====
@ echo =====
```

```
layer4done:
@ echo =====
@ echo === layer 4 of 24 complete =====
@ echo =====
```

```
layer5done:
@ echo =====
@ echo === layer 5 of 24 complete =====
@ echo =====
```

```
layer6done:
@ echo =====
@ echo === layer 6 of 24 complete =====
@ echo =====
```

```
layer7done:
@ echo =====
@ echo === layer 7 of 24 complete =====
@ echo =====
```

```
layer8done:
@ echo =====
@ echo === layer 8 of 24 complete =====
@ echo =====
```

```
layer9done:
@ echo =====
@ echo === layer 9 of 24 complete =====
@ echo =====
```

```
layer10done:
@ echo =====
@ echo === layer 10 of 24 complete =====
@ echo =====
```

```
layer11done:
```

```
@ echo =====
@ echo === layer 11 of 24 complete =====
@ echo =====
```

```
layer12done:
@ echo =====
@ echo === layer 12 of 24 complete =====
@ echo =====
```

```
layer13done:
@ echo =====
@ echo === layer 13 of 24 complete =====
@ echo =====
```

```
layer14done:
@ echo =====
@ echo === layer 14 of 24 complete =====
@ echo =====
```

```
layer15done:
@ echo =====
@ echo === layer 15 of 24 complete =====
@ echo =====
```

```
layer16done:
@ echo =====
@ echo === layer 16 of 24 complete =====
@ echo =====
```

```
layer17done:
@ echo =====
@ echo === layer 17 of 24 complete =====
@ echo =====
```

```
layer18done:
@ echo =====
@ echo === layer 18 of 24 complete =====
@ echo =====
```

```
layer19done:
@ echo =====
@ echo === layer 19 of 24 complete =====
@ echo =====
```

```
layer20done:
@ echo =====
@ echo === layer 20 of 24 complete =====
@ echo =====
```

```
layer21done:
```

```

@ echo =====
@ echo === layer 21 of 24 complete =====
@ echo =====

layer22done:
@ echo =====
@ echo === layer 22 of 24 complete =====
@ echo =====

layer23done:
@ echo =====
@ echo === layer 23 of 24 complete =====
@ echo =====

layer24done:
@ echo =====
@ echo === layer 24 of 24 complete =====
@ echo =====

```

## Regression testing

There is a Makefile variable called REGRESS in the algebra Makefile:

```

REGRESS=\
  AssociationList.regress  BalancedBinaryTree.regress \

```

This is part of a Makefile that structure within the algebra Makefile. This Makefile gets extracted by the Makefile in the input subdirectory. Thus there is a connection between the two Makefiles (algebra and input). This algebra regression Makefile goes by the chunk name **algebra.regress**. It contains a list of regression files and a single stanza:

```

%.regress: %.input
@ echo sa13 algebra regression testing $*
@ (cd ${MID} ; \
  rm -f $*.output ; \
  if [ -z "${NOISE}" ] ; then \
    echo ')read $*.input' | ${TESTSYS} ; \
  else \
    echo ')read $*.input' | ${TESTSYS} >${TMP}/trace ; \
  fi ; \
  if [ -z "${NOISE}" ] ; then \
    echo ')lisp (regress "$*.output")' | ${TESTSYS} \
      | egrep -v '(Timestamp|Version)' | tee $*.regress ; \
  else \
    echo ')lisp (regress "$*.output")' | ${TESTSYS} \

```

```

        | egrep -v '(Timestamp|Version)' > $*.regress ; \
fi ; \
fgrep "regression result" $*.regress )

```

The input Makefile extracts **algebra.regress** and then calls make to process this file.

This keeps the regression test list in the algebra Makefile.

The algebra files contain input chunks in regress format. This stanza is extracted by the src/input/Makefile after all of the other regression tests are complete. This stanza is put into a int/Makefile.algebra and then executed by make.

— **algebra.regress** —

```

TESTSYS= ${OBJ}/${SYS}/bin/interpsys

REGRESS= \
AbelianGroup.regress \
AbelianMonoid.regress \
AbelianMonoidRing.regress \
AbelianSemiGroup.regress \
AdditiveValuationAttribute.regress \
AffineAlgebraicSetComputeWithGroebnerBasis.regress \
AffineAlgebraicSetComputeWithResultant.regress \
AffinePlane.regress \
AffinePlaneOverPseudoAlgebraicClosureOfFiniteField.regress \
AffineSpace.regress \
AffineSpaceCategory.regress \
Aggregate.regress \
Algebra.regress \
AlgebraGivenByStructuralConstants.regress \
AlgebraicallyClosedField.regress \
AlgebraicallyClosedFunctionSpace.regress \
AlgebraicFunctionField.regress \
AlgebraicFunction.regress \
AlgebraicHermiteIntegration.regress \
AlgebraicIntegrate.regress \
AlgebraicIntegration.regress \
AlgebraicManipulations.regress \
AlgebraicMultFact.regress \
AlgebraicNumber.regress \
AlgebraPackage.regress \
AlgFactor.regress \
AnnaNumericalIntegrationPackage.regress \
AnnaNumericalOptimizationPackage.regress \
AnnaOrdinaryDifferentialEquationPackage.regress \
AnnaPartialDifferentialEquationPackage.regress \
AnonymousFunction.regress \
AntiSymm.regress \
Any.regress \
AnyFunctions1.regress \

```

```

ApplicationProgramInterface.regress \
ApplyRules.regress \
ApplyUnivariateSkewPolynomial.regress \
ApproximateAttribute.regress \
ArbitraryExponentAttribute.regress \
ArbitraryPrecisionAttribute.regress \
ArcHyperbolicFunctionCategory.regress \
ArcTrigonometricFunctionCategory.regress \
ArrayStack.regress \
Asp1.regress \
Asp10.regress \
Asp12.regress \
Asp19.regress \
Asp20.regress \
Asp24.regress \
Asp27.regress \
Asp28.regress \
Asp29.regress \
Asp30.regress \
Asp31.regress \
Asp33.regress \
Asp34.regress \
Asp35.regress \
Asp4.regress \
Asp41.regress \
Asp42.regress \
Asp49.regress \
Asp50.regress \
Asp55.regress \
Asp6.regress \
Asp7.regress \
Asp73.regress \
Asp74.regress \
Asp77.regress \
Asp78.regress \
Asp8.regress \
Asp80.regress \
Asp9.regress \
AssociatedEquations.regress \
AssociatedJordanAlgebra.regress \
AssociatedLieAlgebra.regress \
AssociationList.regress \
AssociationListAggregate.regress \
AttachPredicates.regress \
AttributeButtons.regress \
Automorphism.regress \
AxiomServer.regress \
BalancedBinaryTree.regress \
BalancedFactorisation.regress \
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PrecomputedAssociatedEquations.regress \
PrimeField.regress \
PrimitiveArray.regress \
PrimitiveArrayFunctions2.regress \
PrimitiveElement.regress \
PrimitiveFunctionCategory.regress \
PrimitiveRatDE.regress \
PrimitiveRatRicDE.regress \
PrincipalIdealDomain.regress \
PrintPackage.regress \
PriorityQueueAggregate.regress \
Product.regress \
ProjectiveAlgebraicSetPackage.regress \
ProjectivePlane.regress \
ProjectivePlaneOverPseudoAlgebraicClosureOfFiniteField.regress \
ProjectiveSpace.regress \
ProjectiveSpaceCategory.regress \
PseudoAlgebraicClosureOfAlgExtOfRationalNumber.regress \
PseudoAlgebraicClosureOfAlgExtOfRationalNumberCategory.regress \
PseudoAlgebraicClosureOfFiniteField.regress \
PseudoAlgebraicClosureOfFiniteFieldCategory.regress \
PseudoAlgebraicClosureOfPerfectFieldCategory.regress \
PseudoAlgebraicClosureOfRationalNumber.regress \
PseudoAlgebraicClosureOfRationalNumberCategory.regress \
PseudoLinearNormalForm.regress \
PseudoRemainderSequence.regress \
PureAlgebraicIntegration.regress \
PureAlgebraicLODE.regress \
PushVariables.regress \
QuadraticForm.regress \
QuasiAlgebraicSet.regress \
QuasiAlgebraicSet2.regress \
QuasiComponentPackage.regress \
Quaternion.regress \
QuaternionCategory.regress \
QuaternionCategoryFunctions2.regress \
QueryEquation.regress \
Queue.regress \
QueueAggregate.regress \
QuotientFieldCategory.regress \

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QuotientFieldCategoryFunctions2.regress \
RadicalCategory.regress \
RadicalEigenPackage.regress \
RadicalFunctionField.regress \
RadicalSolvePackage.regress \
RadixExpansion.regress \
RadixUtilities.regress \
RandomDistributions.regress \
RandomFloatDistributions.regress \
RandomIntegerDistributions.regress \
RandomNumberSource.regress \
RationalFactorize.regress \
RationalFunction.regress \
RationalFunctionDefiniteIntegration.regress \
RationalFunctionFactor.regress \
RationalFunctionFactorizer.regress \
RationalFunctionIntegration.regress \
RationalFunctionLimitPackage.regress \
RationalFunctionSign.regress \
RationalFunctionSum.regress \
RationalIntegration.regress \
RationalInterpolation.regress \
RationalLODE.regress \
RationalRetractions.regress \
RationalRicDE.regress \
RationalUnivariateRepresentationPackage.regress \
RealClosedField.regress \
RealClosure.regress \
RealConstant.regress \
RealNumberSystem.regress \
RealPolynomialUtilitiesPackage.regress \
RealRootCharacterizationCategory.regress \
RealSolvePackage.regress \
RealZeroPackage.regress \
RealZeroPackageQ.regress \
RectangularMatrix.regress \
RectangularMatrixCategory.regress \
RectangularMatrixCategoryFunctions2.regress \
RecurrenceOperator.regress \
RecursiveAggregate.regress \
RecursivePolynomialCategory.regress \
ReducedDivisor.regress \
ReduceLODE.regress \
ReductionOfOrder.regress \
Reference.regress \
RegularChain.regress \
RegularSetDecompositionPackage.regress \
RegularTriangularSet.regress \
RegularTriangularSetCategory.regress \
RegularTriangularSetGcdPackage.regress \

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RepeatedDoubling.regress \
RepeatedSquaring.regress \
RepresentationPackage1.regress \
RepresentationPackage2.regress \
ResidueRing.regress \
ResolveLatticeCompletion.regress \
Result.regress \
RetractableTo.regress \
RetractSolvePackage.regress \
RewriteRule.regress \
RightModule.regress \
RightOpenIntervalRootCharacterization.regress \
RightUnitaryAttribute.regress \
Ring.regress \
Rng.regress \
RomanNumeral.regress \
RootsFindingPackage.regress \
RoutinesTable.regress \
RuleCalled.regress \
Ruleset.regress \
SAERationalFunctionAlgFactor.regress \
ScriptFormulaFormat.regress \
ScriptFormulaFormat1.regress \
Segment.regress \
SegmentBindingFunctions2.regress \
SegmentCategory.regress \
SegmentExpansionCategory.regress \
SegmentFunctions2.regress \
SemiGroup.regress \
Set.regress \
SetAggregate.regress \
SetCategory.regress \
SetCategoryWithDegree.regress \
SetOfMIntegersInOneToN.regress \
SequentialDifferentialPolynomial.regress \
SequentialDifferentialVariable.regress \
SExpression.regress \
SExpressionCategory.regress \
SExpressionOf.regress \
ShallowlyMutableAttribute.regress \
SimpleAlgebraicExtension.regress \
SimpleAlgebraicExtensionAlgFactor.regress \
SimpleFortranProgram.regress \
SingleInteger.regress \
SingletonAsOrderedSet.regress \
SimplifyAlgebraicNumberConvertPackage.regress \
SmithNormalForm.regress \
SortedCache.regress \
SortPackage.regress \
SparseTable.regress \

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SparseMultivariatePolynomial.regress \
SparseMultivariateTaylorSeries.regress \
SparseUnivariateLaurentSeries.regress \
SparseUnivariatePolynomial.regress \
SparseUnivariatePolynomialExpressions.regress \
SparseUnivariatePolynomialFunctions2.regress \
SparseUnivariatePuisseuxSeries.regress \
SparseUnivariateSkewPolynomial.regress \
SparseUnivariateTaylorSeries.regress \
SpecialFunctionCategory.regress \
SpecialOutputPackage.regress \
SplitHomogeneousDirectProduct.regress \
SplittingNode.regress \
SplittingTree.regress \
SquareMatrix.regress \
SquareFreeNormalizedTriangularSetCategory.regress \
SquareFreeQuasiComponentPackage.regress \
SquareFreeRegularSetDecompositionPackage.regress \
SquareFreeRegularTriangularSet.regress \
SquareFreeRegularTriangularSetCategory.regress \
SquareFreeRegularTriangularSetGcdPackage.regress \
SquareMatrixCategory.regress \
Stack.regress \
StackAggregate.regress \
StepThrough.regress \
StochasticDifferential.regress \
StorageEfficientMatrixOperations.regress \
Stream.regress \
StreamAggregate.regress \
StreamFunctions1.regress \
StreamFunctions2.regress \
StreamFunctions3.regress \
StreamInfiniteProduct.regress \
StreamTaylorSeriesOperations.regress \
StreamTensor.regress \
StreamTranscendentalFunctions.regress \
StreamTranscendentalFunctionsNonCommutative.regress \
String.regress \
StringAggregate.regress \
StringCategory.regress \
StringTable.regress \
StructuralConstantsPackage.regress \
SturmHabichtPackage.regress \
SubResultantPackage.regress \
SubSpace.regress \
SubSpaceComponentProperty.regress \
SuchThat.regress \
SupFractionFactorizer.regress \
Switch.regress \
Symbol.regress \

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SymbolTable.regress \
SymmetricFunctions.regress \
SymmetricGroupCombinatoricFunctions.regress \
SymmetricPolynomial.regress \
SystemODESolver.regress \
SystemSolvePackage.regress \
Table.regress \
TableAggregate.regress \
Tableau.regress \
TableauxBumpers.regress \
TabulatedComputationPackage.regress \
TangentExpansions.regress \
TaylorSeries.regress \
TaylorSolve.regress \
TemplateUtilities.regress \
TexFormat.regress \
TexFormat1.regress \
TextFile.regress \
TheSymbolTable.regress \
ThreeDimensionalMatrix.regress \
ThreeDimensionalViewport.regress \
ThreeSpace.regress \
ThreeSpaceCategory.regress \
ToolsForSign.regress \
TopLevelDrawFunctions.regress \
TopLevelDrawFunctionsForAlgebraicCurves.regress \
TopLevelDrawFunctionsForCompiledFunctions.regress \
TopLevelDrawFunctionsForPoints.regress \
TopLevelThreeSpace.regress \
TranscendentalFunctionCategory.regress \
TranscendentalHermiteIntegration.regress \
TranscendentalIntegration.regress \
TranscendentalManipulations.regress \
TranscendentalRischDE.regress \
TranscendentalRischDESystem.regress \
TransSolvePackage.regress \
TransSolvePackageService.regress \
Tree.regress \
TriangularSetCategory.regress \
TriangularMatrixOperations.regress \
TrigonometricFunctionCategory.regress \
TrigonometricManipulations.regress \
TubePlot.regress \
TubePlotTools.regress \
Tuple.regress \
TwoDimensionalArray.regress \
TwoDimensionalArrayCategory.regress \
TwoDimensionalPlotClipping.regress \
TwoFactorize.regress \
UnaryRecursiveAggregate.regress \

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UniqueFactorizationDomain.regress \
UnitsKnownAttribute.regress \
UnivariateFactorize.regress \
UnivariateFormalPowerSeries.regress \
UnivariateFormalPowerSeriesFunctions.regress \
UnivariateLaurentSeries.regress \
UnivariateLaurentSeriesCategory.regress \
UnivariateLaurentSeriesConstructor.regress \
UnivariateLaurentSeriesConstructorCategory.regress \
UnivariateLaurentSeriesFunctions2.regress \
UnivariatePolynomial.regress \
UnivariatePolynomialCategory.regress \
UnivariatePolynomialCategoryFunctions2.regress \
UnivariatePolynomialCommonDenominator.regress \
UnivariatePolynomialDecompositionPackage.regress \
UnivariatePolynomialDivisionPackage.regress \
UnivariatePolynomialFunctions2.regress \
UnivariatePolynomialMultiplicationPackage.regress \
UnivariatePolynomialSquareFree.regress \
UnivariatePowerSeriesCategory.regress \
UnivariatePuisseuxSeries.regress \
UnivariatePuisseuxSeriesCategory.regress \
UnivariatePuisseuxSeriesConstructor.regress \
UnivariatePuisseuxSeriesConstructorCategory.regress \
UnivariatePuisseuxSeriesFunctions2.regress \
UnivariatePuisseuxSeriesWithExponentialSingularity.regress \
UnivariateSkewPolynomial.regress \
UnivariateSkewPolynomialCategory.regress \
UnivariateSkewPolynomialCategoryOps.regress \
UnivariateTaylorSeries.regress \
UnivariateTaylorSeriesCZero.regress \
UnivariateTaylorSeriesCategory.regress \
UnivariateTaylorSeriesFunctions2.regress \
UnivariateTaylorSeriesODESolver.regress \
UniversalSegment.regress \
UniversalSegmentFunctions2.regress \
UserDefinedPartialOrdering.regress \
UserDefinedVariableOrdering.regress \
UTSodetools.regress \
U8Matrix.regress \
U16Matrix.regress \
U32Matrix.regress \
U32VectorPolynomialOperations.regress \
U8Vector.regress \
U16Vector.regress \
U32Vector.regress \
Variable.regress \
Vector.regress \
VectorCategory.regress \
VectorFunctions2.regress \

```

```

VectorSpace.regress \
ViewDefaultsPackage.regress \
ViewportPackage.regress \
Void.regress \
WeightedPolynomials.regress \
WeierstrassPreparation.regress \
WildFunctionFieldIntegralBasis.regress \
WuWenTsunTriangularSet.regress \
XAlgebra.regress \
XDistributedPolynomial.regress \
XExponentialPackage.regress \
XFreeAlgebra.regress \
XPBWPolynomial.regress \
XPolynomial.regress \
XPolynomialRing.regress \
XPolynomialsCat.regress \
XRecursivePolynomial.regress \
ZeroDimensionalSolvePackage.regress
# these requires graphics
# TwoDimensionalViewport

%.regress: %.input
@ echo sa14 algebra regression testing $*
@ rm -f $*.output
@ if [ -z "${NOISE}" ] ; then \
    echo ')read $*.input' | ${TESTSYS} ; \
else \
    echo ')read $*.input' | ${TESTSYS} >${TMP}/trace ; \
fi
@ rm $*.input
@ if [ -z "${NOISE}" ] ; then \
    echo ')lisp (regress "$*.output")' | ${TESTSYS} \
    | egrep -v '(Timestamp|Version)' | tee $*.regress ; \
else \
    echo ')lisp (regress "$*.output")' | ${TESTSYS} \
    | egrep -v '(Timestamp|Version)' > $*.regress ; \
fi
@ fgrep "regression result" $*.regress

all: announce ${REGRESS}
@echo sa15 algebra test cases complete.

announce:
@ echo =====
@ echo src/algebra RUNNING REGRESSION TESTING
@ echo =====

```

---

## 1.12 The Makefile

— Makefile —

```

\getchunk{environment}

\getchunk{layer0 bootstrap}
\getchunk{layer0 copy}
\getchunk{layer0}
\getchunk{layer1}
\getchunk{layer2}
\getchunk{layer3}
\getchunk{layer4}
\getchunk{layer5}
\getchunk{layer6}
\getchunk{layer7}
\getchunk{layer8}
\getchunk{layer9}
\getchunk{layer10}
\getchunk{layer11}
\getchunk{layer12}
\getchunk{layer13}
\getchunk{layer14}
\getchunk{layer15}
\getchunk{layer16}
\getchunk{layer17}
\getchunk{layer18}
\getchunk{layer19}
\getchunk{layer20}
\getchunk{layer21}
\getchunk{layer22}
\getchunk{layer23}
\getchunk{order}

all: fasthelp fastinput fastxhtml src ${OUT}/libdb.text \
    ${SPADBIN}/index.html gloss
@ echo sa16 finished ${IN}

fasthelp:
@ echo =====
@ echo src/algebra BUILDING HELP FILES
@ echo =====
@echo sa17 making .help files with lisp
@ echo "(makeHelpFiles)" | ${LISP}

fastinput:
@ echo =====

```

```

@ echo src/algebra BUILDING INPUT FILES
@ echo =====
@ echo sa18 making .input files with lisp
@ echo "(makeInputFiles)" | ${LISP}

fastxhtml:
@ echo =====
@ echo src/algebra BUILDING XHTML FILES
@ echo =====
@ echo sa19 making .xhtml files with lisp
@ mkdir -p ${MNT}/doc
@ echo "(makeXHTMLFiles)" | ${LISP}

\getchunk{newcode}

${SPADBIN}/index.html:
@ echo sa20 making ${SPADBIN}/index.html
@ echo "<html><head>Axiom Algebra</head><body>" >${SPADBIN}/index.html
@- (for i in ${IN}/*.pamphlet ; do \
    ${TANGLE} -R'algebra.html' $$i 2>/dev/null | \
        sed -e 's?DOC?${DOC}?g' >>${SPADBIN}/index.html ; \
    done)
@ echo "</body></html>" >>${SPADBIN}/index.html

#all: ${SUBPART}

gloss:
@ echo sa21 copying glossary files
@ cp ${SRC}/share/algebra/gloss.text ${MNT}/${SYS}/algebra
@ cp ${SRC}/share/algebra/glossdef.text ${MNT}/${SYS}/algebra
@ cp ${SRC}/share/algebra/glosskey.text ${MNT}/${SYS}/algebra

everything: lib db cmd gloss
@ echo sa22 invoking make in 'pwd' with parms:
@ echo SYS= ${SYS} LSP= ${LSP} PART= ${PART} SUBPART= ${SUBPART}
@ echo SPAD= ${SPAD} SRC= ${SRC} INT= ${INT}
@ echo OBJ= ${OBJ} MNT= ${MNT} O=${O} LISP=${LISP} BYE=${BYE}

src: announce ${ORDER}
@ echo sa23 Finished uilding nrlibS from spad sources

announce:
@ echo =====
@ echo src/algebra BUILDING ALGEBRA FILES
@ echo =====

\getchunk{genericRules}
\getchunk{ps (DOC from SRC)}
\getchunk{libdb.text (OUT from IN)}
\getchunk{stages}

```

```
clean:  
@echo sa24 src/algebra cleaned
```

---

## Chapter 2

# Implementation

### 2.1 Elementary Functions[4]

#### Rationale for Branch Cuts and Identities

Perhaps one of the most vexing problems to be addressed when attempting to determine a set of mathematical function definitions is the choice of the principal branches of the inverses of the exponential, trigonometric and hyperbolic functions, and, further, the mathematical form that these functions take on their domains (the complex plane slit by the corresponding branch cuts). The fundamental issue facing the mathematical library developer is the plethora of possibilities, and while some choices are demonstrably inferior, there is rarely a choice which is clearly best.

Following Kahan [1], we will refer to the mathematical formula we use to define the principal branch of each such function as its principal expression. For the inverse trigonometric and inverse hyperbolic functions, this principal expression is given in terms of the functions  $\ln z$  and  $\sqrt{z}$ .

The choices set out in this Standard are derived from the following principles:

1. Branch cuts must lie completely within either the real or imaginary axis.
2. The principal expression must not have any singularities at finite points which the original function does not share.
3. Branch cuts end at branch points.
4. Where not otherwise determined, the value of a function on its branch cut or cuts is obtained by taking a limit along a path which approaches the branch cut in a counterclockwise manner around one of the branch points which terminate the cut (counterclockwise continuity, or CCC for short).
5. Each inverse trigonometric or hyperbolic function must be real-valued on the range

of the corresponding trigonometric or hyperbolic function when restricted to the real axis.

Further explanation of these principles can be found in [1].

While standard identities such as  $\ln \frac{1}{x} = -\ln x$  hold for  $x > 0$ , they generally fail to hold for complex arguments of principal branches, even complex arguments which do not lie on a branch cut. Consequently, a definition of, say,

$$\arctan z = \frac{i}{2}(\ln(1 - iz) - \ln(1 + iz))$$

is not the same as the apparently equivalent

$$i \ln \left( \sqrt{\frac{1 - iz}{1 + iz}} \right)$$

. It can be challenging to decide if two candidate expressions for representing an inverse trigonometric or hyperbolic function which agree in the mathematical domain are the same in the restricted computational realm of principal expressions.

If the underlying computational mathematical system supports a signed zero, as prescribed by the IEEE/754 Standard [2], then a larger set of identities will hold. For example,

$$\ln \frac{1}{z} = -\ln z$$

holds for all complex  $z$  in such a system, as do conjugate symmetry relations for functions such as  $\arcsin z$ . However, identities such as  $\ln zw = \ln z + \ln w$  still fail to hold for some complex  $z$  and  $w$ .

A useful function for representing identities involving complex functions which are related to the logarithm function is the complex signum function, defined as:

$$\text{csgn}(z) = \begin{cases} 1, & \text{if } \Re z > 0 \text{ or } \Re z = 0 \text{ and } \Im z > 0 \\ -1, & \text{if } \Re z < 0 \text{ or } \Re z = 0 \text{ and } \Im z < 0 \end{cases}$$

The value of  $\text{csgn}(0)$  is unspecified. Note, for example, that  $\sqrt{z^2} = z \text{csgn}(z)$ .

Using the principal expressions for each of the 12 inverse trigonometric and hyperbolic functions as given in this Standard, we have the following relations and identities:



**Inverse trigonometric functions**

$\arcsin(z)$	$= -\arcsin(-z)$ $= \frac{\pi}{2} - \arccos(z)$ $= -i\operatorname{arcsinh}(iz)$
$\arccos(z)$	$= \pi - \arccos(-z)$ $= \frac{\pi}{2} - \arcsin(z)$ $= i\operatorname{csgn}(i(z-1))\operatorname{arccosh}(z)$
$\arctan(z)$	$= -\arctan(-z)$ $= \frac{\pi}{2} - \operatorname{arccot}(z)$ $= -i\operatorname{arctanh}(iz)$ $= -i \ln \left( \frac{1+iz}{\sqrt{z^2+1}} \right)$
$\operatorname{arccot}(z)$	$= \pi - \operatorname{arccot}(-z)$ $= \frac{\pi}{2} - \arctan(z)$ $= i\operatorname{arccoth}(iz) + \frac{\pi}{2}(1 - \operatorname{csgn}(z+i))$ $= -i \ln \left( \frac{z+i}{\sqrt{z^2+1}} \right)$
$\operatorname{arccsc}(z)$	$= -\operatorname{arccsc}(-z)$ $= \arcsin\left(\frac{1}{z}\right)$ $= \frac{\pi}{2} - \operatorname{arcsec}(z)$ $= i \operatorname{arccsch}(iz)$
$\operatorname{arcsec}(z)$	$= \pi - \operatorname{arcsec}(-z)$ $= \arccos\left(\frac{1}{z}\right)$ $= \frac{\pi}{2} - \operatorname{arccsc}(z)$ $= i\operatorname{csgn}\left(i\left(\frac{1}{z} - 1\right)\right)\operatorname{arcsech}(z)$

## Inverse hyperbolic functions

$\operatorname{arcsinh}(z)$	$= -\operatorname{arcsinh}(-z)$ $= \frac{\pi}{2}i - \operatorname{csgn}(i - z)\operatorname{arccosh}(-iz)$ $= -i\operatorname{arcsin}(iz)$
$\operatorname{arccosh}(z)$	$= i\operatorname{csgn}(i(1 - z))\operatorname{arccos}(z)$ $= \operatorname{csgn}(i(1 - z))(\frac{\pi}{2}i - \operatorname{arcsinh}(iz))$
$\operatorname{artanh}(z)$	$= -\operatorname{artanh}(-z)$ $= \operatorname{arccoth}(z) - \frac{\pi}{2}i\operatorname{csgn}(i(z - 1))$ $= -i\operatorname{arctan}(iz)$ $= -\ln\left(\frac{1 - z}{\sqrt{1 - z^2}}\right)$
$\operatorname{arccoth}(z)$	$= \operatorname{artanh}(z) + \frac{\pi}{2}i\operatorname{csgn}(i(z - 1))$ $= i\operatorname{arccot}(iz) + \frac{\pi}{2}i(\operatorname{csgn}(i(z - 1)) - 1)$ $= i\operatorname{arctan}(-iz) + \frac{\pi}{2}i\operatorname{csgn}(i(z - 1))$
$\operatorname{arccsch}(z)$	$= -\operatorname{arccsch}(-z)$ $= \operatorname{arcsinn}(\frac{1}{z})$ $= \operatorname{csgn}(i + \frac{1}{z})\operatorname{arcsech}(-iz) - \frac{\pi}{2}i$ $= i\operatorname{arccsc}(iz)$
$\operatorname{arcsech}(z)$	$= \operatorname{arccosh}(\frac{1}{z})$ $= i\operatorname{csgn}(i(1 - \frac{1}{z}))\operatorname{arcsec}(z)$ $= \operatorname{csgn}(i(1 - \frac{1}{z}))(\frac{\pi}{2}i + \operatorname{arccsch}(iz))$

# Bibliography

- [1] Kahan, W., Branch cuts for complex elementary functions, or, Much ado about nothing's sign bit, Proceedings of the joint IMA/SIAM conference on The State of the Art in Numerical Analysis, University of Birmingham, A. Iserles and M.J.D. Powell, eds, Clarendon Press, Oxford, 1987, 165-210.
- [2] IEEE standard 754-1985 for binary floating-point arithmetic, reprinted in ACM SIGPLAN Notices 22 #2 (1987), 9-25.
- [3] IEEE standard 754-2008
- [4] Numerical Mathematics Consortium Technical Specification 1.0 (Draft)  
<http://www.nmconstorium.org>