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Problems that one may encounter running MAGMA and how to fix them

Listed below are some problems that arose in the past (most are unlikely to ever recur) but the solutions that were necessary on past occasions to fix them are nevertheless listed. The problems used to arise when a new version was installed. Usually to fix such problems requires changing a few *permission* bits, or shifting a file to where it was previously located or perhaps uncompressing a file. Above all, if something does not work as the documentation says it should: *tell somebody about it*, preferably after checking below.

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Running library/database examples

Problem: Typing something like

```
load "H1E1";
```

gives the response:

```
User error: Could not open file "H1E1" (No such file or
directory)
```

Solution: Ask root to: `chmod a+r /homes/magma/*/LIBS/examples/*`.

Problem: Typing something like

```
load "I1E1";
```

gives the response:

```
User error: Could not open file "I1E1" (No such file or
directory)
```

Solution: Ask root to: `chmod a+r /homes/magma/*/LIBS/intro/*`.

Running `caymag`

Some of these problems should never recur since `caymag` is unlikely to ever be updated again.

Problem: Typing `caymag` ... gives the response:

```
... : Not enough memory.
```

Solution: `rlogin` to another (less-used) machine and try again.

Problem: Typing `caymag ...` gives the response:

```
caymag: Command not found.
```

Probable solution: Ask `root` to uncompress and `untar /homes/magma/*/caymag.tar`. The directory `/homes/magma/*/caymag` should contain

```
caymag.help      caymag.intr      .magma_intr
caymag.rhs       caymag.install  caymag.lhs
caymag.magma_res
```

and the executable `caymag`.

Problem: Typing `caymag ...` gives the response:

```
caymag: Permission denied.
```

Probable solution: Ask `root` to `chmod a+x /homes/magma/*/caymag/caymag`.

Problem: Typing `caymag ...` gives the response:

```
caymag: caymag.lhs not found.
```

Probable solution: Ask `root` to `chmod a+r /homes/magma/*/caymag/caymag.*`.

On-line help

Problem: For a *browser enquiry*, typing

```
? ...
```

or to use the *browser*, typing

```
??
```

gives the response:

```
Help not available
```

Probable solution: Ask `root` to uncompress and `untar /homes/magma/*/help.tar`.

Accessing `.dvi` file documentation

Problem: Typing `xdvi /homes/magma/*/doc/hb1` gives the response:

```
...hbl.dvi not found.
```

Solution: Use the web interface to access the copy in the /www/magma directory!

Command line Editing

Problem: Editing of the command line using arrow keys and control keys doesn't work.

Probable solution: If you are on a SUN using a 'cmdtool' window, try a 'shelltool' window.

Running out of memory

Problem: The computation MAGMA was engaged in didn't quite finish due to MAGMA running out of memory.

Solution: You can try resetting `MAGMA_MEMORY_EXTENSION_SIZE` by typing in a MAGMA session:

```
SetMemoryExtensionSize(N);
```

where N is some number of bytes larger than the default of 100000. However, if you beef up your program to try and get a little more out of it, eventually a machine limit will be reached; in this case, there is no substitute for more efficient programming and/or segmentation of the task into MAGMA-manageable chunks. Organising your program so that it writes data out to a file and then reads back in data as required is often a good defensive technique - if for some reason the system crashes you have some chance of picking up from the point of the crash rather than starting from scratch.