

Example

A GAP4 Package

Version 1.1

by

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1

The Example Package

This chapter describes the GAP package **Example**. As its name suggests it is an example of how to create a GAP package. It has little functionality except for being a package.

If you are viewing this with on-line help, type:

```
gap> ?>
```

to see the functions provided by the **Example** package.

1.1 The main functions

The following functions are available:

- 1 ► `ListDirectory([dir])` F
lists the files in directory *dir* (a string) or the current directory if called with no arguments.
- 2 ► `FindFile(directory_name, file_name)` F
searches for the file *file_name* in the directory tree rooted at *directory_name* and returns the absolute path names of all occurrences of this file as a list of strings.
- 3 ► `LoadedPackages()` F
returns a list with the names of the packages that have been loaded so far.
- 4 ► `Which(prg)` F
returns the path of the program executed if `Exec(prg)`; is called, e.g.

```
gap> Which("date");  
"/bin/date"  
gap> Exec("date");  
Sun Oct 7 16:23:45 CEST 2001
```
- 5 ► `WhereIsPkgProgram(prg)` F
returns a list of paths of programs with name *prg* in the current packages loaded. Try:

```
gap> WhereIsPkgProgram( "hello" );
```
- 6 ► `HelloWorld()` F
executes the C program **hello** provided by the **Example** package.

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This index covers only this manual. A page number in *italics* refers to a whole section which is devoted to the indexed subject. Keywords are sorted with case and spaces ignored, e.g., “PermutationCharacter” comes before “permutation group”.

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