

Function: code_support-insert_helppages

Calling Sequence:

insert_helppages(L::listlist,Mapleversion::string)

Description:

- [code_support](#) is a package that provides various functions to copy, rename, modify, save, etc. Maple help worksheets.
- Examples how to use the remaining functions in the package can be found in [code_support,examples](#).
- Procedure **insert_helppages** accomplishes insertion of the help topics into the library archive that has been searched.
- The help topics are given in a list L of type 'listlist' as the first argument to **insert_helppages** while Maple version, for example "M10", is listed as the second argument.

Examples:

```
> restart:with(code_support);

      Module code_cupport ver. 1.03 for CLIFFORD et al. for Maple 11
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      Last revised: March 10, 2007

[NamesInLibrary, change_helpfiles, change_name, copy_file, get_TEXT, get_dir,
 insert_helppages, makeLIST, modifyLIST, replace_in_file, split]
[ We will save the help topics in the library archive that exists in the directory `C:\Maple10\Cliffordlib`.
> libname;
"C:\Maple11\Cliffordlib", "C:\Maple11\lib", "C:\Brachey.Troy\TNB",
"C:\Maple11\SINGULARPLURALinklib"
>
Inserting help pages for CLIFFORD:
> HDB_LIB_PATH:=convert(libname[1],name);          ##Path to HDB
library
HELP_FILE_PATH:=`C:\Maple11\P11\Cliff11\Help/`;   ##Directory
where *_M11.mws help files are located
BROWSER_PATH:=`Mathematics/Algebra/`;           ###Location in
the browser
ModuleName :=`Clifford`;                          ###Name of the
```

```

module
Parent      := `Clifford,intro`;          ###Parent for
all help pages in the module
GrandParent := `Clifford,intro`;        ###Grand parent
for all help pages in the module
MapleVersion:="M11";                    ### substring of
file names that gives Maple version
#####
##list of types defined in the module
#####
typesLIST:=["antisymmatrix", "clibasmon", "climatrix", "climon", "clip
olynom",

"cliprod", "cliscalar", "diagmatrix", "dfmatrix", "evelement",

"fieldelement", "gencomplex", "genquatbasis", "genquaternion",

"idempotent", "nilpotent", "oddelement", "primitiveidemp", "purequatba
sis",

        "quaternion", "symmatrix", "tensorprod"];
#####
##list of types converts defined in the module
#####
convertsLIST:=["mlist", "str_to_int"];

        HDB_LIB_PATH := C:\Maple11\Cliffordlib
        HELP_FILE_PATH := C:\Maple11\P11\Cliff11\Help/
        BROWSER_PATH := Mathematics/Algebra/
        ModuleName := Clifford
        Parent := Clifford,intro
        GrandParent := Clifford,intro
        MapleVersion := "M11"
typesLIST := ["antisymmatrix", "clibasmon", "climatrix", "climon", "clipolynom", "cliprod",
        "cliscalar", "diagmatrix", "dfmatrix", "evelement", "fieldelement", "gencomplex",
        "genquatbasis", "genquaternion", "idempotent", "nilpotent", "oddelement", "primitiveidemp",
        "purequatbasis", "quaternion", "symmatrix", "tensorprod"]
        convertsLIST := ["mlist", "str_to_int"]

```

Step 1: Generating an automatic list from help page files:

```

> Lauto:=makeLIST (ModuleName, Parent, GrandParent, HELP_FILE_PATH, Maple
Version);

```

```

Lauto := [ [ Clifford,&c, Clifford,intro, [ "Clifford,&c", "&c" ] ],
  [ Clifford,adfmatrix, Clifford,intro, [ "Clifford,adfmatrix", "adfmatrix" ] ],
  [ Clifford,all_sigs, Clifford,intro, [ "Clifford,all_sigs", "all_sigs" ] ], [
  Clifford,type,antisymmatrix, Clifford,intro, [ "Clifford,type,antisymmatrix", "type,antisymmatrix" ]
  ], [ Clifford,beta_minus, Clifford,intro, [ "Clifford,beta_minus", "beta_minus" ] ],
  [ Clifford,beta_plus, Clifford,intro, [ "Clifford,beta_plus", "beta_plus" ] ],
  [ Clifford,Bsignature, Clifford,intro, [ "Clifford,Bsignature", "Bsignature" ] ],
  [ Clifford,buildm, Clifford,intro, [ "Clifford,buildm", "buildm" ] ],
  [ Clifford,bygrade, Clifford,intro, [ "Clifford,bygrade", "bygrade" ] ],
  [ Clifford,cbasis, Clifford,intro, [ "Clifford,cbasis", "cbasis" ] ],
  [ Clifford,cdfmatrix, Clifford,intro, [ "Clifford,cdfmatrix", "cdfmatrix" ] ],
  [ Clifford,cexpQ, Clifford,intro, [ "Clifford,cexpQ", "cexpQ" ] ],
  [ Clifford,cexp, Clifford,intro, [ "Clifford,cexp", "cexp" ] ],
  [ Clifford,cinv, Clifford,intro, [ "Clifford,cinv", "cinv" ] ],
  [ Clifford,type,clibasmon, Clifford,intro, [ "Clifford,type,clibasmon", "type,clibasmon" ] ],
  [ Clifford,clibilinear, Clifford,intro, [ "Clifford,clibilinear", "clibilinear" ] ],
  [ Clifford,clicollect, Clifford,intro, [ "Clifford,clicollect", "clicollect" ] ],
  [ Clifford,clidata, Clifford,intro, [ "Clifford,clidata", "clidata" ] ],
  [ Clifford,CLIFFORD_ENV, Clifford,intro, [ "Clifford,CLIFFORD_ENV", "CLIFFORD_ENV" ] ],
  [ Clifford,clilinear, Clifford,intro, [ "Clifford,clilinear", "clilinear" ] ],
  [ Clifford,type,climatrix, Clifford,intro, [ "Clifford,type,climatrix", "type,climatrix" ] ],
  [ Clifford,climinpoly, Clifford,intro, [ "Clifford,climinpoly", "climinpoly" ] ],
  [ Clifford,type,climon, Clifford,intro, [ "Clifford,type,climon", "type,climon" ] ],
  [ Clifford,cliparse, Clifford,intro, [ "Clifford,cliparse", "cliparse" ] ],
  [ Clifford,type,clipolynom, Clifford,intro, [ "Clifford,type,clipolynom", "type,clipolynom" ] ],
  [ Clifford,type,cliprod, Clifford,intro, [ "Clifford,type,cliprod", "type,cliprod" ] ],
  [ Clifford,cliremove, Clifford,intro, [ "Clifford,cliremove", "cliremove" ] ],
  [ Clifford,type,cliscalar, Clifford,intro, [ "Clifford,type,cliscalar", "type,cliscalar" ] ],
  [ Clifford,clisolve, Clifford,intro, [ "Clifford,clisolve", "clisolve" ] ],
  [ Clifford,clisort, Clifford,intro, [ "Clifford,clisort", "clisort" ] ],
  [ Clifford,cliterms, Clifford,intro, [ "Clifford,cliterms", "cliterms" ] ],
  [ Clifford,cmulgen, Clifford,intro, [ "Clifford,cmulgen", "cmulgen" ] ],
  [ Clifford,cmulNUM, Clifford,intro, [ "Clifford,cmulNUM", "cmulNUM" ] ],
  [ Clifford,cmulQ, Clifford,intro, [ "Clifford,cmulQ", "cmulQ" ] ],
  [ Clifford,cmulRS, Clifford,intro, [ "Clifford,cmulRS", "cmulRS" ] ],
  [ Clifford,cmul, Clifford,intro, [ "Clifford,cmul", "cmul" ] ], [

```

Clifford,cmul_user_defined, Clifford,intro, ["Clifford,cmul_user_defined", "cmul_user_defined"]
], [*Clifford,cocycle, Clifford,intro*, ["Clifford,cocycle", "cocycle"]], [*Clifford,commutingelements, Clifford,intro*, ["Clifford,commutingelements", "commutingelements"]], [*Clifford,conjugation, Clifford,intro*, ["Clifford,conjugation", "conjugation"]], [*Clifford,c_conjug, Clifford,intro*, ["Clifford,c_conjug", "c_conjug"]], [*Clifford,ddfmatrix, Clifford,intro*, ["Clifford,ddfmatrix", "ddfmatrix"]], [*Clifford,type,dfmatrix, Clifford,intro*, ["Clifford,type,dfmatrix", "type,dfmatrix"]], [*Clifford,type,diagmatrix, Clifford,intro*, ["Clifford,type,diagmatrix", "type,diagmatrix"]], [*Clifford,diagonalize, Clifford,intro*, ["Clifford,diagonalize", "diagonalize"]], [*Clifford,displayid, Clifford,intro*, ["Clifford,displayid", "displayid"]], [*Clifford,type,evenelement, Clifford,intro*, ["Clifford,type,evenelement", "type,evenelement"]], [*Clifford,extract, Clifford,intro*, ["Clifford,extract", "extract"]], [*Clifford,factoridempotent, Clifford,intro*, ["Clifford,factoridempotent", "factoridempotent"]], [*Clifford,type,fieldelement, Clifford,intro*, ["Clifford,type,fieldelement", "type,fieldelement"]], [*Clifford,find1str, Clifford,intro*, ["Clifford,find1str", "find1str"]], [*Clifford,findbasis, Clifford,intro*, ["Clifford,findbasis", "findbasis"]], [*Clifford,type,gencomplex, Clifford,intro*, ["Clifford,type,gencomplex", "type,gencomplex"]], [*Clifford,type,genquatbasis, Clifford,intro*, ["Clifford,type,genquatbasis", "type,genquatbasis"]], [*Clifford,type,genquaternion, Clifford,intro*, ["Clifford,type,genquaternion", "type,genquaternion"]], [*Clifford,gradeinv, Clifford,intro*, ["Clifford,gradeinv", "gradeinv"]], [*Clifford,type,idempotent, Clifford,intro*, ["Clifford,type,idempotent", "type,idempotent"]], [*Clifford,intro, Clifford,intro*, ["Clifford,intro", "intro"]], [*Clifford,isproduct, Clifford,intro*, ["Clifford,isproduct", "isproduct"]], [*Clifford,isVahlenmatrix, Clifford,intro*, ["Clifford,isVahlenmatrix", "isVahlenmatrix"]], [*Clifford,Kfield, Clifford,intro*, ["Clifford,Kfield", "Kfield"]], [*Clifford,LCQ, Clifford,intro*, ["Clifford,LCQ", "LCQ"]], [*Clifford,LC, Clifford,intro*, ["Clifford,LC", "LC"]], [*Clifford,makealiases, Clifford,intro*, ["Clifford,makealiases", "makealiases"]], [*Clifford,makeclibasmon, Clifford,intro*, ["Clifford,makeclibasmon", "makeclibasmon"]], [*Clifford,matKrepr, Clifford,intro*, ["Clifford,matKrepr", "matKrepr"]], [*Clifford,maxgrade, Clifford,intro*, ["Clifford,maxgrade", "maxgrade"]], [*Clifford,maxindex, Clifford,intro*, ["Clifford,maxindex", "maxindex"]], [*Clifford,mdfmatrix, Clifford,intro*, ["Clifford,mdfmatrix", "mdfmatrix"]], [*Clifford,minimalideal, Clifford,intro*, ["Clifford,minimalideal", "minimalideal"]], [*Clifford,convert,mlist, Clifford,intro*, ["Clifford,convert,mlist", "convert,mlist"]],

[*Clifford,type,nilpotent*, *Clifford,intro*, ["Clifford,type,nilpotent", "type,nilpotent"]],
[*Clifford,type,oddelement*, *Clifford,intro*, ["Clifford,type,oddelement", "type,oddelement"]],
[*Clifford,ord*, *Clifford,intro*, ["Clifford,ord", "ord"]],
[*Clifford,permsign*, *Clifford,intro*, ["Clifford,permsign", "permsign"]], [
Clifford,type,primitiveidemp, *Clifford,intro*,
["Clifford,type,primitiveidemp", "type,primitiveidemp"]],
[*Clifford,pseudodet*, *Clifford,intro*, ["Clifford,pseudodet", "pseudodet"]], [
Clifford,type,purequatbasis, *Clifford,intro*, ["Clifford,type,purequatbasis", "type,purequatbasis"]],
[*Clifford,qdisplay*, *Clifford,intro*, ["Clifford,qdisplay", "qdisplay"]],
[*Clifford,qinv*, *Clifford,intro*, ["Clifford,qinv", "qinv"]],
[*Clifford,qmul*, *Clifford,intro*, ["Clifford,qmul", "qmul"]],
[*Clifford,qnorm*, *Clifford,intro*, ["Clifford,qnorm", "qnorm"]],
[*Clifford,type,quaternion*, *Clifford,intro*, ["Clifford,type,quaternion", "type,quaternion"]],
[*Clifford,q_conjug*, *Clifford,intro*, ["Clifford,q_conjug", "q_conjug"]],
[*Clifford,RCQ*, *Clifford,intro*, ["Clifford,RCQ", "RCQ"]],
[*Clifford,RC*, *Clifford,intro*, ["Clifford,RC", "RC"]],
[*Clifford,rd_clibasmon*, *Clifford,intro*, ["Clifford,rd_clibasmon", "rd_clibasmon"]],
[*Clifford,rd_climon*, *Clifford,intro*, ["Clifford,rd_climon", "rd_climon"]],
[*Clifford,rd_clipolynom*, *Clifford,intro*, ["Clifford,rd_clipolynom", "rd_clipolynom"]],
[*Clifford,reorder*, *Clifford,intro*, ["Clifford,reorder", "reorder"]],
[*Clifford,reversion*, *Clifford,intro*, ["Clifford,reversion", "reversion"]],
[*Clifford,RHnumber*, *Clifford,intro*, ["Clifford,RHnumber", "RHnumber"]],
[*Clifford,rmulm*, *Clifford,intro*, ["Clifford,rmulm", "rmulm"]],
[*Clifford,rot3d*, *Clifford,intro*, ["Clifford,rot3d", "rot3d"]],
[*Clifford,scalarpart*, *Clifford,intro*, ["Clifford,scalarpart", "scalarpart"]],
[*Clifford,setup*, *Clifford,intro*, ["Clifford,setup", "setup"]],
[*Clifford,sexp*, *Clifford,intro*, ["Clifford,sexp", "sexp"]],
[*Clifford,specify_constants*, *Clifford,intro*, ["Clifford,specify_constants", "specify_constants"]],
[*Clifford,spinorKbasis*, *Clifford,intro*, ["Clifford,spinorKbasis", "spinorKbasis"]],
[*Clifford,spinorKrepr*, *Clifford,intro*, ["Clifford,spinorKrepr", "spinorKrepr"]],
[*Clifford,squaremodf*, *Clifford,intro*, ["Clifford,squaremodf", "squaremodf"]],
[*Clifford,convert,str_to_int*, *Clifford,intro*, ["Clifford,convert,str_to_int", "convert,str_to_int"]],
[*Clifford,subs_clipolynom*, *Clifford,intro*, ["Clifford,subs_clipolynom", "subs_clipolynom"]],
[*Clifford,type,symmatrix*, *Clifford,intro*, ["Clifford,type,symmatrix", "type,symmatrix"]],
[*Clifford,type,tensorprod*, *Clifford,intro*, ["Clifford,type,tensorprod", "type,tensorprod"]],
[*Clifford,useproduct*, *Clifford,intro*, ["Clifford,useproduct", "useproduct"]],

```
[ Clifford,vectorpart, Clifford,intro, ["Clifford,vectorpart", "vectorpart"]],
[ Clifford,version, Clifford,intro, ["Clifford,version", "version"]],
[ Clifford,wedge, Clifford,intro, ["Clifford,wedge", "wedge"]],
[ Clifford,wexp, Clifford,intro, ["Clifford,wexp", "wexp"]]]
```

>

Step 2: Modifying, if needed, certain entries in Lauto list:

This is a list of entries that need to have modified aliases.

```
> modsLIST:= [
  [ `Clifford,intro`, ["Clifford", "Clifford,intro", "CLIFFORD", "Clifford", "clifford"] ],
  [ `Clifford,&c`, ["Clifford,Clifford product", "&c", "&cQ", "&w", "&q", "&cm", "&cQm", "&wm", "&qm", "rm", "&C"] ],
  [ `Clifford,wedge`, ["Clifford,wedge", "wedge", "&w"] ],
  [ `Clifford,CLIFFORD_ENV`, ["Clifford,CLIFFORD_ENV", "CLIFFORD_ENV", "dim_V", "_prolevel", "_shortcut_in_minimalideal", "_shortcut_in_Kfield", "_shortcut_in_spinorKbasis", "_shortcut_in_spinorKrepr", "_warnings_flag", "_quatbasis", "_scalartypes"] ]
]:
> for mem in modsLIST do
  Lauto:=modifyLIST(Lauto, op(mem))
end do:
Lauto;
```

```
[ [ Clifford,&c, Clifford,intro, ["Clifford,Clifford product", "&c", "&cQ", "&w", "&q", "&cm", "&cQm", "&wm", "&qm", "rm", "&C"] ],
  [ Clifford,adfmatrix, Clifford,intro, ["Clifford,adfmatrix", "adfmatrix"] ],
  [ Clifford,all_sigs, Clifford,intro, ["Clifford,all_sigs", "all_sigs"] ], [ Clifford,type,antisymmatrix, Clifford,intro, ["Clifford,type,antisymmatrix", "type,antisymmatrix"] ],
  [ Clifford,beta_minus, Clifford,intro, ["Clifford,beta_minus", "beta_minus"] ],
  [ Clifford,beta_plus, Clifford,intro, ["Clifford,beta_plus", "beta_plus"] ],
  [ Clifford,Bsignature, Clifford,intro, ["Clifford,Bsignature", "Bsignature"] ],
  [ Clifford,buildm, Clifford,intro, ["Clifford,buildm", "buildm"] ],
  [ Clifford,bygrade, Clifford,intro, ["Clifford,bygrade", "bygrade"] ],
  [ Clifford,cbasis, Clifford,intro, ["Clifford,cbasis", "cbasis"] ],
```

[*Clifford,cdfmatrix, Clifford,intro*, ["Clifford,cdfmatrix", "cdfmatrix"]],
 [*Clifford,cexpQ, Clifford,intro*, ["Clifford,cexpQ", "cexpQ"]],
 [*Clifford,cexp, Clifford,intro*, ["Clifford,cexp", "cexp"]],
 [*Clifford,cinv, Clifford,intro*, ["Clifford,cinv", "cinv"]],
 [*Clifford,type,clibasmon, Clifford,intro*, ["Clifford,type,clibasmon", "type,clibasmon"]],
 [*Clifford,clibilinear, Clifford,intro*, ["Clifford,clibilinear", "clibilinear"]],
 [*Clifford,clicollect, Clifford,intro*, ["Clifford,clicollect", "clicollect"]],
 [*Clifford,clidata, Clifford,intro*, ["Clifford,clidata", "clidata"]], [*Clifford,CLIFFORD_ENV, Clifford,intro*, ["Clifford,CLIFFORD_ENV", "CLIFFORD_ENV", "dim_V", "_prolevel", "_shortcut_in_minimalideal", "_shortcut_in_Kfield", "_shortcut_in_spinorKbasis", "_shortcut_in_spinorKrepr", "_warnings_flag", "_quatbasis", "_scalartypes"]],
 [*Clifford,clilinear, Clifford,intro*, ["Clifford,clilinear", "clilinear"]],
 [*Clifford,type,climatrix, Clifford,intro*, ["Clifford,type,climatrix", "type,climatrix"]],
 [*Clifford,climinpoly, Clifford,intro*, ["Clifford,climinpoly", "climinpoly"]],
 [*Clifford,type,climon, Clifford,intro*, ["Clifford,type,climon", "type,climon"]],
 [*Clifford,cliparse, Clifford,intro*, ["Clifford,cliparse", "cliparse"]],
 [*Clifford,type,clipolynom, Clifford,intro*, ["Clifford,type,clipolynom", "type,clipolynom"]],
 [*Clifford,type,cliprod, Clifford,intro*, ["Clifford,type,cliprod", "type,cliprod"]],
 [*Clifford,cliremove, Clifford,intro*, ["Clifford,cliremove", "cliremove"]],
 [*Clifford,type,cliscalar, Clifford,intro*, ["Clifford,type,cliscalar", "type,cliscalar"]],
 [*Clifford,clisolve, Clifford,intro*, ["Clifford,clisolve", "clisolve"]],
 [*Clifford,clisort, Clifford,intro*, ["Clifford,clisort", "clisort"]],
 [*Clifford,cliterms, Clifford,intro*, ["Clifford,cliterms", "cliterms"]],
 [*Clifford,cmulgen, Clifford,intro*, ["Clifford,cmulgen", "cmulgen"]],
 [*Clifford,cmulNUM, Clifford,intro*, ["Clifford,cmulNUM", "cmulNUM"]],
 [*Clifford,cmulQ, Clifford,intro*, ["Clifford,cmulQ", "cmulQ"]],
 [*Clifford,cmulRS, Clifford,intro*, ["Clifford,cmulRS", "cmulRS"]],
 [*Clifford,cmul, Clifford,intro*, ["Clifford,cmul", "cmul"]], [*Clifford,cmul_user_defined, Clifford,intro*, ["Clifford,cmul_user_defined", "cmul_user_defined"]],
 [*Clifford,cocycle, Clifford,intro*, ["Clifford,cocycle", "cocycle"]], [*Clifford,commutingelements, Clifford,intro*, ["Clifford,commutingelements", "commutingelements"]],
 [*Clifford,conjugation, Clifford,intro*, ["Clifford,conjugation", "conjugation"]],
 [*Clifford,c_conjug, Clifford,intro*, ["Clifford,c_conjug", "c_conjug"]],
 [*Clifford,ddfmatrix, Clifford,intro*, ["Clifford,ddfmatrix", "ddfmatrix"]],
 [*Clifford,type,dfmatrix, Clifford,intro*, ["Clifford,type,dfmatrix", "type,dfmatrix"]],

[*Clifford,type,diagmatrix*, *Clifford,intro*, ["Clifford,type,diagmatrix", "type,diagmatrix"]],
 [*Clifford,diagonalize*, *Clifford,intro*, ["Clifford,diagonalize", "diagonalize"]],
 [*Clifford,displayid*, *Clifford,intro*, ["Clifford,displayid", "displayid"]],
 [*Clifford,type,evenelement*, *Clifford,intro*, ["Clifford,type,evenelement", "type,evenelement"]],
 [*Clifford,extract*, *Clifford,intro*, ["Clifford,extract", "extract"]],
 [*Clifford,factoridempotent*, *Clifford,intro*, ["Clifford,factoridempotent", "factoridempotent"]],
 [*Clifford,type,fieldelement*, *Clifford,intro*, ["Clifford,type,fieldelement", "type,fieldelement"]],
 [*Clifford,find1str*, *Clifford,intro*, ["Clifford,find1str", "find1str"]],
 [*Clifford,findbasis*, *Clifford,intro*, ["Clifford,findbasis", "findbasis"]],
 [*Clifford,type,gencomplex*, *Clifford,intro*, ["Clifford,type,gencomplex", "type,gencomplex"]],
 [*Clifford,type,genquatbasis*, *Clifford,intro*, ["Clifford,type,genquatbasis", "type,genquatbasis"]], [*Clifford,type,genquaternion*, *Clifford,intro*, ["Clifford,type,genquaternion", "type,genquaternion"]],
 [*Clifford,gradeinv*, *Clifford,intro*, ["Clifford,gradeinv", "gradeinv"]],
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 [*Clifford,isproduct*, *Clifford,intro*, ["Clifford,isproduct", "isproduct"]],
 [*Clifford,isVahlenmatrix*, *Clifford,intro*, ["Clifford,isVahlenmatrix", "isVahlenmatrix"]],
 [*Clifford,Kfield*, *Clifford,intro*, ["Clifford,Kfield", "Kfield"]],
 [*Clifford,LCQ*, *Clifford,intro*, ["Clifford,LCQ", "LCQ"]],
 [*Clifford,LC*, *Clifford,intro*, ["Clifford,LC", "LC"]],
 [*Clifford,makealiases*, *Clifford,intro*, ["Clifford,makealiases", "makealiases"]],
 [*Clifford,makeclibasmon*, *Clifford,intro*, ["Clifford,makeclibasmon", "makeclibasmon"]],
 [*Clifford,matKrepr*, *Clifford,intro*, ["Clifford,matKrepr", "matKrepr"]],
 [*Clifford,maxgrade*, *Clifford,intro*, ["Clifford,maxgrade", "maxgrade"]],
 [*Clifford,maxindex*, *Clifford,intro*, ["Clifford,maxindex", "maxindex"]],
 [*Clifford,mdfmatrix*, *Clifford,intro*, ["Clifford,mdfmatrix", "mdfmatrix"]],
 [*Clifford,minimalideal*, *Clifford,intro*, ["Clifford,minimalideal", "minimalideal"]],
 [*Clifford,convert,mlist*, *Clifford,intro*, ["Clifford,convert,mlist", "convert,mlist"]],
 [*Clifford,type,nilpotent*, *Clifford,intro*, ["Clifford,type,nilpotent", "type,nilpotent"]],
 [*Clifford,type,oddelement*, *Clifford,intro*, ["Clifford,type,oddelement", "type,oddelement"]],
 [*Clifford,ord*, *Clifford,intro*, ["Clifford,ord", "ord"]],
 [*Clifford,permsign*, *Clifford,intro*, ["Clifford,permsign", "permsign"]], [*Clifford,type,primitiveidemp*, *Clifford,intro*, ["Clifford,type,primitiveidemp", "type,primitiveidemp"]],
 [*Clifford,pseudodet*, *Clifford,intro*, ["Clifford,pseudodet", "pseudodet"]], [*Clifford,type,purequatbasis*, *Clifford,intro*, ["Clifford,type,purequatbasis", "type,purequatbasis"]],

```

[ Clifford,qdisplay, Clifford,intro, [ "Clifford,qdisplay", "qdisplay" ] ],
[ Clifford,qinv, Clifford,intro, [ "Clifford,qinv", "qinv" ] ],
[ Clifford,qmul, Clifford,intro, [ "Clifford,qmul", "qmul" ] ],
[ Clifford,qnorm, Clifford,intro, [ "Clifford,qnorm", "qnorm" ] ],
[ Clifford,type,quaternion, Clifford,intro, [ "Clifford,type,quaternion", "type,quaternion" ] ],
[ Clifford,q_conjug, Clifford,intro, [ "Clifford,q_conjug", "q_conjug" ] ],
[ Clifford,RCQ, Clifford,intro, [ "Clifford,RCQ", "RCQ" ] ],
[ Clifford,RC, Clifford,intro, [ "Clifford,RC", "RC" ] ],
[ Clifford,rd_clibasmon, Clifford,intro, [ "Clifford,rd_clibasmon", "rd_clibasmon" ] ],
[ Clifford,rd_climon, Clifford,intro, [ "Clifford,rd_climon", "rd_climon" ] ],
[ Clifford,rd_clipolynom, Clifford,intro, [ "Clifford,rd_clipolynom", "rd_clipolynom" ] ],
[ Clifford,reorder, Clifford,intro, [ "Clifford,reorder", "reorder" ] ],
[ Clifford,reversion, Clifford,intro, [ "Clifford,reversion", "reversion" ] ],
[ Clifford,RHnumber, Clifford,intro, [ "Clifford,RHnumber", "RHnumber" ] ],
[ Clifford,rmulm, Clifford,intro, [ "Clifford,rmulm", "rmulm" ] ],
[ Clifford,rot3d, Clifford,intro, [ "Clifford,rot3d", "rot3d" ] ],
[ Clifford,scalarpart, Clifford,intro, [ "Clifford,scalarpart", "scalarpart" ] ],
[ Clifford,setup, Clifford,intro, [ "Clifford,setup", "setup" ] ],
[ Clifford,sexp, Clifford,intro, [ "Clifford,sexp", "sexp" ] ],
[ Clifford,specify_constants, Clifford,intro, [ "Clifford,specify_constants", "specify_constants" ] ],
[ Clifford,spinorKbasis, Clifford,intro, [ "Clifford,spinorKbasis", "spinorKbasis" ] ],
[ Clifford,spinorKrepr, Clifford,intro, [ "Clifford,spinorKrepr", "spinorKrepr" ] ],
[ Clifford,squaremodf, Clifford,intro, [ "Clifford,squaremodf", "squaremodf" ] ],
[ Clifford,convert,str_to_int, Clifford,intro, [ "Clifford,convert,str_to_int", "convert,str_to_int" ] ],
[ Clifford,subs_clipolynom, Clifford,intro, [ "Clifford,subs_clipolynom", "subs_clipolynom" ] ],
[ Clifford,type,symmatrix, Clifford,intro, [ "Clifford,type,symmatrix", "type,symmatrix" ] ],
[ Clifford,type,tensorprod, Clifford,intro, [ "Clifford,type,tensorprod", "type,tensorprod" ] ],
[ Clifford,useproduct, Clifford,intro, [ "Clifford,useproduct", "useproduct" ] ],
[ Clifford,vectorpart, Clifford,intro, [ "Clifford,vectorpart", "vectorpart" ] ],
[ Clifford,version, Clifford,intro, [ "Clifford,version", "version" ] ],
[ Clifford,wedge, Clifford,intro, [ "Clifford,wedge", "wedge", "&w" ] ],
[ Clifford,wexp, Clifford,intro, [ "Clifford,wexp", "wexp" ] ]

```

```
[ >
```

```
[ Step 3: Inserting all help pages into HDB and the browser using the last modified list:
```

```
[ > insert_helppages (Lauto, MapleVersion) ;
```

```
Trying to read file C:\Maple11\P11\Cliff11\Help/&c_M11.mws...
```

```
Success... inserting topic Clifford,&c from the file:
```

C:\Maple11/P11/Cliff11/Help/&c_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/adfmatrix_M11.mws...
Success... inserting topic Clifford,adfmatrix from the file:

C:\Maple11/P11/Cliff11/Help/adfmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/all_sigs_M11.mws...
Success... inserting topic Clifford,all_sigs from the file:

C:\Maple11/P11/Cliff11/Help/all_sigs_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/antisymmatrix_M11.mws...
Success... inserting topic Clifford,type,antisymmatrix from the file:

C:\Maple11/P11/Cliff11/Help/antisymmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/beta_minus_M11.mws...
Success... inserting topic Clifford,beta_minus from the file:

C:\Maple11/P11/Cliff11/Help/beta_minus_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/beta_plus_M11.mws...
Success... inserting topic Clifford,beta_plus from the file:

C:\Maple11/P11/Cliff11/Help/beta_plus_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/Bsignature_M11.mws...
Success... inserting topic Clifford,Bsignature from the file:

C:\Maple11/P11/Cliff11/Help/Bsignature_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/buildm_M11.mws...
Success... inserting topic Clifford,buildm from the file:

C:\Maple11/P11/Cliff11/Help/buildm_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/bygrade_M11.mws...
Success... inserting topic Clifford,bygrade from the file:

C:\Maple11/P11/Cliff11/Help/bygrade_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cbasis_M11.mws...
Success... inserting topic Clifford,cbasis from the file:

C:\Maple11/P11/Cliff11/Help/cbasis_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cdfmatrix_M11.mws...
Success... inserting topic Clifford,cdfmatrix from the file:

C:\Maple11/P11/Cliff11/Help/cdfmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cexpQ_M11.mws...
Success... inserting topic Clifford,cexpQ from the file:

C:\Maple11/P11/Cliff11/Help/cexpQ_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cexp_M11.mws...
Success... inserting topic Clifford,cexp from the file:

C:\Maple11/P11/Cliff11/Help/cexp_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cinv_M11.mws...
Success... inserting topic Clifford,cinv from the file:

C:\Maple11/P11/Cliff11/Help/cinv_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clibasmon_M11.mws...
Success... inserting topic Clifford,type,clibasmon from the file:

C:\Maple11/P11/Cliff11/Help/clibasmon_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clibilinear_M11.mws...
Success... inserting topic Clifford,clibilinear from the file:

C:\Maple11/P11/Cliff11/Help/clibilinear_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clicollect_M11.mws...
Success... inserting topic Clifford,clicollect from the file:

C:\Maple11/P11/Cliff11/Help/clicollect_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clidata_M11.mws...
Success... inserting topic Clifford,clidata from the file:
C:\Maple11/P11/Cliff11/Help/clidata_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/CLIFFORD_ENV_M11.mws...
Success... inserting topic Clifford,CLIFFORD_ENV from the file:
C:\Maple11/P11/Cliff11/Help/CLIFFORD_ENV_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clilinear_M11.mws...
Success... inserting topic Clifford,clilinear from the file:
C:\Maple11/P11/Cliff11/Help/clilinear_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/climatrix_M11.mws...
Success... inserting topic Clifford,type,climatrix from the file:
C:\Maple11/P11/Cliff11/Help/climatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/climinpoly_M11.mws...
Success... inserting topic Clifford,climinpoly from the file:
C:\Maple11/P11/Cliff11/Help/climinpoly_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/climon_M11.mws...
Success... inserting topic Clifford,type,climon from the file:
C:\Maple11/P11/Cliff11/Help/climon_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cliparse_M11.mws...
Success... inserting topic Clifford,cliparse from the file:
C:\Maple11/P11/Cliff11/Help/cliparse_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clipolynom_M11.mws...
Success... inserting topic Clifford,type,clipolynom from the file:
C:\Maple11/P11/Cliff11/Help/clipolynom_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cliprod_M11.mws...
Success... inserting topic Clifford,type,cliprod from the file:
C:\Maple11/P11/Cliff11/Help/cliprod_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cliremove_M11.mws...
Success... inserting topic Clifford,cliremove from the file:
C:\Maple11/P11/Cliff11/Help/cliremove_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cliscalar_M11.mws...
Success... inserting topic Clifford,type,cliscalar from the file:
C:\Maple11/P11/Cliff11/Help/cliscalar_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clisolve_M11.mws...
Success... inserting topic Clifford,clisolve from the file:
C:\Maple11/P11/Cliff11/Help/clisolve_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/clisort_M11.mws...
Success... inserting topic Clifford,clisort from the file:
C:\Maple11/P11/Cliff11/Help/clisort_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cliterms_M11.mws...
Success... inserting topic Clifford,cliterms from the file:
C:\Maple11/P11/Cliff11/Help/cliterms_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cmulgen_M11.mws...
Success... inserting topic Clifford,cmulgen from the file:
C:\Maple11/P11/Cliff11/Help/cmulgen_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cmulNUM_M11.mws...
Success... inserting topic Clifford,cmulNUM from the file:
C:\Maple11/P11/Cliff11/Help/cmulNUM_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/cmulQ_M11.mws...

Success... inserting topic Clifford,cmulQ from the file:
C:\Maple11/P11/Cliff11/Help/cmulo_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/cmulo_M11.mws...
Success... inserting topic Clifford,cmulo from the file:
C:\Maple11/P11/Cliff11/Help/cmulo_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/cmulo_M11.mws...
Success... inserting topic Clifford,cmulo from the file:
C:\Maple11/P11/Cliff11/Help/cmulo_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/cmulo_user_defined_M11.mws...
Success... inserting topic Clifford,cmulo_user_defined from the file:
C:\Maple11/P11/Cliff11/Help/cmulo_user_defined_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/cocycle_M11.mws...
Success... inserting topic Clifford,cocycle from the file:
C:\Maple11/P11/Cliff11/Help/cocycle_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/commutingelements_M11.mws...
Success... inserting topic Clifford,commutingelements from the file:
C:\Maple11/P11/Cliff11/Help/commutingelements_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/conjugation_M11.mws...
Success... inserting topic Clifford,conjugation from the file:
C:\Maple11/P11/Cliff11/Help/conjugation_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/c_conjug_M11.mws...
Success... inserting topic Clifford,c_conjug from the file:
C:\Maple11/P11/Cliff11/Help/c_conjug_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/ddfmatrix_M11.mws...
Success... inserting topic Clifford,ddfmatrix from the file:
C:\Maple11/P11/Cliff11/Help/ddfmatrix_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/dfmatrix_M11.mws...
Success... inserting topic Clifford,type,dfmatrix from the file:
C:\Maple11/P11/Cliff11/Help/dfmatrix_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/diagmatrix_M11.mws...
Success... inserting topic Clifford,type,diagmatrix from the file:
C:\Maple11/P11/Cliff11/Help/diagmatrix_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/diagonalize_M11.mws...
Success... inserting topic Clifford,diagonalize from the file:
C:\Maple11/P11/Cliff11/Help/diagonalize_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/displayid_M11.mws...
Success... inserting topic Clifford,displayid from the file:
C:\Maple11/P11/Cliff11/Help/displayid_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/evenement_M11.mws...
Success... inserting topic Clifford,type,evenement from the file:
C:\Maple11/P11/Cliff11/Help/evenement_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/extract_M11.mws...
Success... inserting topic Clifford,extract from the file:
C:\Maple11/P11/Cliff11/Help/extract_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/factoridempotent_M11.mws...
Success... inserting topic Clifford,factoridempotent from the file:
C:\Maple11/P11/Cliff11/Help/factoridempotent_M11.mws
Trying to read file C:\Maple11/P11/Cliff11/Help/fieldelement_M11.mws...
Success... inserting topic Clifford,type,fieldelement from the file:

C:\Maple11/P11/Cliff11/Help/fieldelement_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/find1str_M11.mws...

Success... inserting topic Clifford,find1str from the file:

C:\Maple11/P11/Cliff11/Help/find1str_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/findbasis_M11.mws...

Success... inserting topic Clifford,findbasis from the file:

C:\Maple11/P11/Cliff11/Help/findbasis_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/gencomplex_M11.mws...

Success... inserting topic Clifford,type,gencomplex from the file:

C:\Maple11/P11/Cliff11/Help/gencomplex_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/genquatbasis_M11.mws...

Success... inserting topic Clifford,type,genquatbasis from the file:

C:\Maple11/P11/Cliff11/Help/genquatbasis_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/genquaternion_M11.mws...

Success... inserting topic Clifford,type,genquaternion from the file:

C:\Maple11/P11/Cliff11/Help/genquaternion_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/gradeinv_M11.mws...

Success... inserting topic Clifford,gradeinv from the file:

C:\Maple11/P11/Cliff11/Help/gradeinv_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/idempotent_M11.mws...

Success... inserting topic Clifford,type,idempotent from the file:

C:\Maple11/P11/Cliff11/Help/idempotent_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/intro_M11.mws...

Success... inserting topic Clifford,intro from the file:

C:\Maple11/P11/Cliff11/Help/intro_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/isproduct_M11.mws...

Success... inserting topic Clifford,isproduct from the file:

C:\Maple11/P11/Cliff11/Help/isproduct_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/isVahlenmatrix_M11.mws...

Success... inserting topic Clifford,isVahlenmatrix from the file:

C:\Maple11/P11/Cliff11/Help/isVahlenmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/Kfield_M11.mws...

Success... inserting topic Clifford,Kfield from the file:

C:\Maple11/P11/Cliff11/Help/Kfield_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/LCQ_M11.mws...

Success... inserting topic Clifford,LCQ from the file:

C:\Maple11/P11/Cliff11/Help/LCQ_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/LC_M11.mws...

Success... inserting topic Clifford,LC from the file:

C:\Maple11/P11/Cliff11/Help/LC_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/makealiases_M11.mws...

Success... inserting topic Clifford,makealiases from the file:

C:\Maple11/P11/Cliff11/Help/makealiases_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/makeclibasmon_M11.mws...

Success... inserting topic Clifford,makeclibasmon from the file:

C:\Maple11/P11/Cliff11/Help/makeclibasmon_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/matKrepr_M11.mws...

Success... inserting topic Clifford,matKrepr from the file:

C:\Maple11/P11/Cliff11/Help/matKrepr_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/maxgrade_M11.mws...
Success... inserting topic Clifford,maxgrade from the file:
C:\Maple11/P11/Cliff11/Help/maxgrade_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/maxindex_M11.mws...
Success... inserting topic Clifford,maxindex from the file:
C:\Maple11/P11/Cliff11/Help/maxindex_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/mdfmatrix_M11.mws...
Success... inserting topic Clifford,mdfmatrix from the file:
C:\Maple11/P11/Cliff11/Help/mdfmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/minimalideal_M11.mws...
Success... inserting topic Clifford,minimalideal from the file:
C:\Maple11/P11/Cliff11/Help/minimalideal_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/mlist_M11.mws...
Success... inserting topic Clifford,convert,mlist from the file:
C:\Maple11/P11/Cliff11/Help/mlist_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/nilpotent_M11.mws...
Success... inserting topic Clifford,type,nilpotent from the file:
C:\Maple11/P11/Cliff11/Help/nilpotent_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/oddelement_M11.mws...
Success... inserting topic Clifford,type,oddelement from the file:
C:\Maple11/P11/Cliff11/Help/oddelement_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/ord_M11.mws...
Success... inserting topic Clifford,ord from the file:
C:\Maple11/P11/Cliff11/Help/ord_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/permsign_M11.mws...
Success... inserting topic Clifford,permsign from the file:
C:\Maple11/P11/Cliff11/Help/permsign_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/primitiveidemp_M11.mws...
Success... inserting topic Clifford,type,primitiveidemp from the file:
C:\Maple11/P11/Cliff11/Help/primitiveidemp_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/pseudodet_M11.mws...
Success... inserting topic Clifford,pseudodet from the file:
C:\Maple11/P11/Cliff11/Help/pseudodet_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/purequatbasis_M11.mws...
Success... inserting topic Clifford,type,purequatbasis from the file:
C:\Maple11/P11/Cliff11/Help/purequatbasis_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/qdisplay_M11.mws...
Success... inserting topic Clifford,qdisplay from the file:
C:\Maple11/P11/Cliff11/Help/qdisplay_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/qinv_M11.mws...
Success... inserting topic Clifford,qinv from the file:
C:\Maple11/P11/Cliff11/Help/qinv_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/qmul_M11.mws...
Success... inserting topic Clifford,qmul from the file:
C:\Maple11/P11/Cliff11/Help/qmul_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/qnorm_M11.mws...
Success... inserting topic Clifford,qnorm from the file:
C:\Maple11/P11/Cliff11/Help/qnorm_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/quaternion_M11.mws...

Success... inserting topic Clifford,type,quaternion from the file:
C:\Maple11/P11/Cliff11/Help/quaternion_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/q_conjug_M11.mws...
Success... inserting topic Clifford,q_conjug from the file:
C:\Maple11/P11/Cliff11/Help/q_conjug_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/RCQ_M11.mws...
Success... inserting topic Clifford,RCQ from the file:
C:\Maple11/P11/Cliff11/Help/RCQ_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/RC_M11.mws...
Success... inserting topic Clifford,RC from the file:
C:\Maple11/P11/Cliff11/Help/RC_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/rd_clibasmon_M11.mws...
Success... inserting topic Clifford,rd_clibasmon from the file:
C:\Maple11/P11/Cliff11/Help/rd_clibasmon_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/rd_climon_M11.mws...
Success... inserting topic Clifford,rd_climon from the file:
C:\Maple11/P11/Cliff11/Help/rd_climon_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/rd_clipolynom_M11.mws...
Success... inserting topic Clifford,rd_clipolynom from the file:
C:\Maple11/P11/Cliff11/Help/rd_clipolynom_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/reorder_M11.mws...
Success... inserting topic Clifford,reorder from the file:
C:\Maple11/P11/Cliff11/Help/reorder_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/reversion_M11.mws...
Success... inserting topic Clifford,reversion from the file:
C:\Maple11/P11/Cliff11/Help/reversion_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/RHnumber_M11.mws...
Success... inserting topic Clifford,RHnumber from the file:
C:\Maple11/P11/Cliff11/Help/RHnumber_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/rmulm_M11.mws...
Success... inserting topic Clifford,rmulm from the file:
C:\Maple11/P11/Cliff11/Help/rmulm_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/rot3d_M11.mws...
Success... inserting topic Clifford,rot3d from the file:
C:\Maple11/P11/Cliff11/Help/rot3d_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/scalarpart_M11.mws...
Success... inserting topic Clifford,scalarpart from the file:
C:\Maple11/P11/Cliff11/Help/scalarpart_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/setup_M11.mws...
Success... inserting topic Clifford,setup from the file:
C:\Maple11/P11/Cliff11/Help/setup_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/sexp_M11.mws...
Success... inserting topic Clifford,sexp from the file:
C:\Maple11/P11/Cliff11/Help/sexp_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/specify_constants_M11.mws...
Success... inserting topic Clifford,specify_constants from the file:
C:\Maple11/P11/Cliff11/Help/specify_constants_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/spinorKbasis_M11.mws...
Success... inserting topic Clifford,spinorKbasis from the file:

C:\Maple11/P11/Cliff11/Help/spinorKbasis_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/spinorKrepr_M11.mws...
Success... inserting topic Clifford, spinorKrepr from the file:

C:\Maple11/P11/Cliff11/Help/spinorKrepr_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/squaremodf_M11.mws...
Success... inserting topic Clifford, squaremodf from the file:

C:\Maple11/P11/Cliff11/Help/squaremodf_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/str_to_int_M11.mws...
Success... inserting topic Clifford, convert, str_to_int from the file:

C:\Maple11/P11/Cliff11/Help/str_to_int_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/subs_clipolynom_M11.mws...
Success... inserting topic Clifford, subs_clipolynom from the file:

C:\Maple11/P11/Cliff11/Help/subs_clipolynom_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/symmatrix_M11.mws...
Success... inserting topic Clifford, type, symmatrix from the file:

C:\Maple11/P11/Cliff11/Help/symmatrix_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/tensorprod_M11.mws...
Success... inserting topic Clifford, type, tensorprod from the file:

C:\Maple11/P11/Cliff11/Help/tensorprod_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/useproduct_M11.mws...
Success... inserting topic Clifford, useproduct from the file:

C:\Maple11/P11/Cliff11/Help/useproduct_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/vectorpart_M11.mws...
Success... inserting topic Clifford, vectorpart from the file:

C:\Maple11/P11/Cliff11/Help/vectorpart_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/version_M11.mws...
Success... inserting topic Clifford, version from the file:

C:\Maple11/P11/Cliff11/Help/version_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/wedge_M11.mws...
Success... inserting topic Clifford, wedge from the file:

C:\Maple11/P11/Cliff11/Help/wedge_M11.mws

Trying to read file C:\Maple11/P11/Cliff11/Help/wexp_M11.mws...
Success... inserting topic Clifford, wexp from the file:

C:\Maple11/P11/Cliff11/Help/wexp_M11.mws

Finished inserting 110 file topics into the HDB and Browser

[> **#!climatrix**

[>

Inserting help pages for Bigebra:

[> **HDB_LIB_PATH:=convert(libname[1], name);**
HELP_FILE_PATH:=`C:\Maple11/P11/Bigebra11/Help/`; ##Directory
where *_M11.mws help files are located
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`Bigebra`;
Parent :=`Bigebra,help`;

```

GrandParent := `Clifford,intro` ;
MapleVersion:="M11" ;
typesLIST:=["tensorpolynom"] ;
convertsLIST:=[] ;

```

```

HDB_LIB_PATH := C:\Maple11\Cliffordlib
HELP_FILE_PATH := C:\Maple11\P11\Bigebra11\Help\
BROWSER_PATH := Mathematics/Algebra/

```

```

Increase verbosity by infolevel[function]=val -- use online help > ?Bigebra[help
]

```

```

ModuleName := Bigebra
Parent := Bigebra,help
GrandParent := Clifford,intro
MapleVersion := "M11"
typesLIST := ["tensorpolynom"]
convertsLIST := [ ]

```

Step 1: Generating an automatic list from help page files:

```

> Lauto:=makeLIST (ModuleName ,Parent ,GrandParent ,HELP_FILE_PATH ,Maple
Version) ;

```

```

Lauto := [[ Bigebra,&cco, Bigebra,help, ["Bigebra,&cco", "&cco"]],
[ Bigebra,&gco_d, Bigebra,help, ["Bigebra,&gco_d", "&gco_d"]],
[ Bigebra,&gco, Bigebra,help, ["Bigebra,&gco", "&gco"]],
[ Bigebra,&gco_pl, Bigebra,help, ["Bigebra,&gco_pl", "&gco_pl"]],
[ Bigebra,&map, Bigebra,help, ["Bigebra,&map", "&map"]],
[ Bigebra,&t, Bigebra,help, ["Bigebra,&t", "&t"]],
[ Bigebra,&v, Bigebra,help, ["Bigebra,&v", "&v"]],
[ Bigebra,bracket, Bigebra,help, ["Bigebra,bracket", "bracket"]],
[ Bigebra,contract, Bigebra,help, ["Bigebra,contract", "contract"]],
[ Bigebra,define, Bigebra,help, ["Bigebra,define", "define"]],
[ Bigebra,drop_t, Bigebra,help, ["Bigebra,drop_t", "drop_t"]],
[ Bigebra,EV, Bigebra,help, ["Bigebra,EV", "EV"]],
[ Bigebra,gantipode, Bigebra,help, ["Bigebra,gantipode", "gantipode"]],
[ Bigebra,gco_unit, Bigebra,help, ["Bigebra,gco_unit", "gco_unit"]],
[ Bigebra,gswitch, Bigebra,help, ["Bigebra,gswitch", "gswitch"]],
[ Bigebra,help, Clifford,intro, ["Bigebra,help", "help"]],
[ Bigebra,init, Bigebra,help, ["Bigebra,init", "init"]],
[ Bigebra,linop2, Bigebra,help, ["Bigebra,linop2", "linop2"]],

```

```

[Bigebra,linop, Bigebra,help, ["Bigebra,linop", "linop"]],
[Bigebra,lists2mat2, Bigebra,help, ["Bigebra,lists2mat2", "lists2mat2"]],
[Bigebra,lists2mat, Bigebra,help, ["Bigebra,lists2mat", "lists2mat"]],
[Bigebra,make_BI_Id, Bigebra,help, ["Bigebra,make_BI_Id", "make_BI_Id"]],
[Bigebra,mapop2, Bigebra,help, ["Bigebra,mapop2", "mapop2"]],
[Bigebra,mapop, Bigebra,help, ["Bigebra,mapop", "mapop"]],
[Bigebra,meet, Bigebra,help, ["Bigebra,meet", "meet"]],
[Bigebra,op2mat2, Bigebra,help, ["Bigebra,op2mat2", "op2mat2"]],
[Bigebra,op2mat, Bigebra,help, ["Bigebra,op2mat", "op2mat"]],
[Bigebra,pairing, Bigebra,help, ["Bigebra,pairing", "pairing"]],
[Bigebra,peek, Bigebra,help, ["Bigebra,peek", "peek"]],
[Bigebra,poke, Bigebra,help, ["Bigebra,poke", "poke"]],
[Bigebra,remove_eq, Bigebra,help, ["Bigebra,remove_eq", "remove_eq"]],
[Bigebra,switch, Bigebra,help, ["Bigebra,switch", "switch"]],
[Bigebra,tcollect, Bigebra,help, ["Bigebra,tcollect", "tcollect"]],
[Bigebra,tensorbasmonom, Bigebra,help, ["Bigebra,tensorbasmonom", "tensorbasmonom"]],
[Bigebra,tensormonom, Bigebra,help, ["Bigebra,tensormonom", "tensormonom"]], [
Bigebra,type,tensorpolynom, Bigebra,help,
["Bigebra,type,tensorpolynom", "type,tensorpolynom"]],
[Bigebra,tsolve1, Bigebra,help, ["Bigebra,tsolve1", "tsolve1"]],
[Bigebra,VERSION, Bigebra,help, ["Bigebra,VERSION", "VERSION"]]

```

>

Step 2: Modifying, if needed, certain entries in Lauto list:

```

> modsLIST:= [
  [ `Bigebra, &cco`, ["Bigebra, Clifford co-product", "&cco"]],
  [ `Bigebra, &gco_d`, ["Bigebra, Grassmann dotted
co-product", "&gco_d"]],
  [ `Bigebra, &gco`, ["Bigebra, Grassmann co-product", "&gco"]],
  [ `Bigebra, &gco_d`, ["Bigebra, Grassmann dotted
co-product", "&gco_d"]],
  [ `Bigebra, &gco`, ["Bigebra, Grassmann co-product", "&gco"]],
  [ `Bigebra, &gco_pl`, ["Bigebra, Grassmann-Pluecker co-product",
"Bigebra, Grassmann-Pluecker co-product", "&gco_pl"]],
  [ `Bigebra, &v`, ["Bigebra, meet", "Bigebra, join", "&v", "meet", "join"]],

  [ `Bigebra, bracket`, ["Bigebra, Peano bracket", "Bigebra, volume
form", "Bigebra, bracket", "bracket"]],

```

```

[ `Bigebra,EV` , ["Bigebra,eval", "Bigebra,EV", "EV"]],
[ `Bigebra,gantipode` , ["Bigebra,gantipode", "gantipode", "antipode"]]
/
[ `Bigebra,help` , ["Bigebra", "Bigebra,intro", "Bigebra,start", "Bigebr
a,help"]],
[ `Bigebra,linop2` , ["Bigebra,linop2", "linop2", "linop", "Bigebra,linop
p"]],
[ `Bigebra,linop` , ["Bigebra,linop", "linop2", "linop", "Bigebra,linop2
"]],
[ `Bigebra,lists2mat2` , ["Bigebra,lists2mat2", "lists2mat2"]],
[ `Bigebra,lists2mat` , ["Bigebra,lists2mat", "lists2mat"]],
[ `Bigebra,mapop2` , ["Bigebra,mapop2", "mapop2", "Bigebra,mapop", "mapo
p"]],
[ `Bigebra,mapop` , ["Bigebra,mapop", "mapop", "Bigebra,mapop2", "mapop2
"]],
[ `Bigebra,meet` , ["Bigebra,meet", "Bigebra,join", "&v", "meet", "join"]
],
[ `Bigebra,op2mat` , ["Bigebra,op2mat", "op2mat"]],
[ `Bigebra,op2mat2` , ["Bigebra,op2mat2", "op2mat2"]],
[ `Bigebra,pairing` , ["Bigebra,dual
product", "Bigebra,pairing", "pairing"]],
[ `Bigebra,switch` , ["crossing", "Bigebra,switch", "switch"]],
[ `Bigebra,type,tensorpolynom` ,

["Bigebra,type,tensorpolynom", "Bigebra,type,tensorbasmonom", "Bigebr
a,type,tensormonom"]]
]:

```

```

> for mem in modsLIST do
    Lauto:=modifyLIST(Lauto, op(mem) )
end do:
Lauto;

```

```

[[ Bigebra,&cco, Bigebra,help, ["Bigebra,Clifford co-product", "&cco"]],
  [Bigebra,&gco_d, Bigebra,help, ["Bigebra,Grassmann dotted co-product", "&gco_d"]],
  [Bigebra,&gco, Bigebra,help, ["Bigebra,Grassmann co-product", "&gco"]], [Bigebra,&gco_pl,
Bigebra,help, [
  "Bigebra,Grassmann-Pluecker co-product", "Bigebra,Grassmann-Pluecker co-product", "&gco_pl"
  ]], [Bigebra,&map, Bigebra,help, ["Bigebra,&map", "&map"]],
  [Bigebra,&t, Bigebra,help, ["Bigebra,&t", "&t"]],
  [Bigebra,&v, Bigebra,help, ["Bigebra,meet", "Bigebra,join", "&v", "meet", "join"]], [Bigebra,bracket, Bigebra,help,
  ["Bigebra,Peano bracket", "Bigebra,volume form", "Bigebra,bracket", "bracket"]],

```

```

[Bigebra,contract, Bigebra,help, ["Bigebra,contract", "contract"]],
[Bigebra,define, Bigebra,help, ["Bigebra,define", "define"]],
[Bigebra,drop_t, Bigebra,help, ["Bigebra,drop_t", "drop_t"]],
[Bigebra,EV, Bigebra,help, ["Bigebra,eval", "Bigebra,EV", "EV"]],
[Bigebra,gantipode, Bigebra,help, ["Bigebra,gantipode", "gantipode", "antipode"]],
[Bigebra,gco_unit, Bigebra,help, ["Bigebra,gco_unit", "gco_unit"]],
[Bigebra,gswitch, Bigebra,help, ["Bigebra,gswitch", "gswitch"]],
[Bigebra,help, Clifford,intro, ["Bigebra", "Bigebra,intro", "Bigebra,start", "Bigebra,help"]],
[Bigebra,init, Bigebra,help, ["Bigebra,init", "init"]],
[Bigebra,linop2, Bigebra,help, ["Bigebra,linop2", "linop2", "linop", "Bigebra,linop"]],
[Bigebra,linop, Bigebra,help, ["Bigebra,linop", "linop2", "linop", "Bigebra,linop2"]],
[Bigebra,lists2mat2, Bigebra,help, ["Bigebra,lists2mat2", "lists2mat2"]],
[Bigebra,lists2mat, Bigebra,help, ["Bigebra,lists2mat", "lists2mat"]],
[Bigebra,make_BI_Id, Bigebra,help, ["Bigebra,make_BI_Id", "make_BI_Id"]],
[Bigebra,mapop2, Bigebra,help, ["Bigebra,mapop2", "mapop2", "Bigebra,mapop", "mapop"]],
[Bigebra,mapop, Bigebra,help, ["Bigebra,mapop", "mapop", "Bigebra,mapop2", "mapop2"]],
[Bigebra,meet, Bigebra,help, ["Bigebra,meet", "Bigebra,join", "&v", "meet", "join"]],
[Bigebra,op2mat2, Bigebra,help, ["Bigebra,op2mat2", "op2mat2"]],
[Bigebra,op2mat, Bigebra,help, ["Bigebra,op2mat", "op2mat"]],
[Bigebra,pairing, Bigebra,help, ["Bigebra,dual product", "Bigebra,pairing", "pairing"]],
[Bigebra,peek, Bigebra,help, ["Bigebra,peek", "peek"]],
[Bigebra,poke, Bigebra,help, ["Bigebra,poke", "poke"]],
[Bigebra,remove_eq, Bigebra,help, ["Bigebra,remove_eq", "remove_eq"]],
[Bigebra,switch, Bigebra,help, ["crossing", "Bigebra,switch", "switch"]],
[Bigebra,tcollect, Bigebra,help, ["Bigebra,tcollect", "tcollect"]],
[Bigebra,tensorbasmonom, Bigebra,help, ["Bigebra,tensorbasmonom", "tensorbasmonom"]],
[Bigebra,tensormonom, Bigebra,help, ["Bigebra,tensormonom", "tensormonom"]], [
Bigebra,type,tensorpolynom, Bigebra,help,
["Bigebra,type,tensorpolynom", "Bigebra,type,tensorbasmonom", "Bigebra,type,tensormonom"]],
[Bigebra,tsolve1, Bigebra,help, ["Bigebra,tsolve1", "tsolve1"]],
[Bigebra,VERSION, Bigebra,help, ["Bigebra,VERSION", "VERSION"]]

```

>

Step 3: Inserting all help pages into HDB and the browser using the last modified list:

```
> insert_helppages (Lauto, MapleVersion) ;
```

```
Trying to read file C:\Maple11\P11\Bigebra11\Help/&cco_M11.mws...
```

```
Success... inserting topic Bigebra,&cco from the file:
```

```
          C:\Maple11\P11\Bigebra11\Help/&cco_M11.mws
```

```
Trying to read file C:\Maple11\P11\Bigebra11\Help/&gco_d_M11.mws...
```

Success... inserting topic Bigebra,&gco_d from the file:

C:\Maple11\P11\Bigebrall\Help/&gco_d_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/&gco_M11.mws...

Success... inserting topic Bigebra,&gco from the file:

C:\Maple11\P11\Bigebrall\Help/&gco_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/&gco_pl_M11.mws...

Success... inserting topic Bigebra,&gco_pl from the file:

C:\Maple11\P11\Bigebrall\Help/&gco_pl_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/&map_M11.mws...

Success... inserting topic Bigebra,&map from the file:

C:\Maple11\P11\Bigebrall\Help/&map_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/&t_M11.mws...

Success... inserting topic Bigebra,&t from the file:

C:\Maple11\P11\Bigebrall\Help/&t_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/&v_M11.mws...

Success... inserting topic Bigebra,&v from the file:

C:\Maple11\P11\Bigebrall\Help/&v_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/bracket_M11.mws...

Success... inserting topic Bigebra,bracket from the file:

C:\Maple11\P11\Bigebrall\Help/bracket_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/contract_M11.mws...

Success... inserting topic Bigebra,contract from the file:

C:\Maple11\P11\Bigebrall\Help/contract_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/define_M11.mws...

Success... inserting topic Bigebra,define from the file:

C:\Maple11\P11\Bigebrall\Help/define_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/drop_t_M11.mws...

Success... inserting topic Bigebra,drop_t from the file:

C:\Maple11\P11\Bigebrall\Help/drop_t_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/EV_M11.mws...

Success... inserting topic Bigebra,EV from the file:

C:\Maple11\P11\Bigebrall\Help/EV_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/gantipode_M11.mws...

Success... inserting topic Bigebra,gantipode from the file:

C:\Maple11\P11\Bigebrall\Help/gantipode_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/gco_unit_M11.mws...

Success... inserting topic Bigebra,gco_unit from the file:

C:\Maple11\P11\Bigebrall\Help/gco_unit_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/gswitch_M11.mws...

Success... inserting topic Bigebra,gswitch from the file:

C:\Maple11\P11\Bigebrall\Help/gswitch_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/help_M11.mws...

Success... inserting topic Bigebra,help from the file:

C:\Maple11\P11\Bigebrall\Help/help_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/init_M11.mws...

Success... inserting topic Bigebra,init from the file:

C:\Maple11\P11\Bigebrall\Help/init_M11.mws

Trying to read file C:\Maple11\P11\Bigebrall\Help/linop2_M11.mws...

Success... inserting topic Bigebra,linop2 from the file:

C:\Maple11/P11/Bigebra11/Help/linop2_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/linop_M11.mws...
Success... inserting topic Bigebra,linop from the file:

C:\Maple11/P11/Bigebra11/Help/linop_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/lists2mat2_M11.mws...
Success... inserting topic Bigebra,lists2mat2 from the file:

C:\Maple11/P11/Bigebra11/Help/lists2mat2_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/lists2mat_M11.mws...
Success... inserting topic Bigebra,lists2mat from the file:

C:\Maple11/P11/Bigebra11/Help/lists2mat_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/make_BI_Id_M11.mws...
Success... inserting topic Bigebra,make_BI_Id from the file:

C:\Maple11/P11/Bigebra11/Help/make_BI_Id_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/mapop2_M11.mws...
Success... inserting topic Bigebra,mapop2 from the file:

C:\Maple11/P11/Bigebra11/Help/mapop2_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/mapop_M11.mws...
Success... inserting topic Bigebra,mapop from the file:

C:\Maple11/P11/Bigebra11/Help/mapop_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/meet_M11.mws...
Success... inserting topic Bigebra,meet from the file:

C:\Maple11/P11/Bigebra11/Help/meet_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/op2mat2_M11.mws...
Success... inserting topic Bigebra,op2mat2 from the file:

C:\Maple11/P11/Bigebra11/Help/op2mat2_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/op2mat_M11.mws...
Success... inserting topic Bigebra,op2mat from the file:

C:\Maple11/P11/Bigebra11/Help/op2mat_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/pairing_M11.mws...
Success... inserting topic Bigebra,pairing from the file:

C:\Maple11/P11/Bigebra11/Help/pairing_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/peek_M11.mws...
Success... inserting topic Bigebra,peek from the file:

C:\Maple11/P11/Bigebra11/Help/peek_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/poke_M11.mws...
Success... inserting topic Bigebra,poke from the file:

C:\Maple11/P11/Bigebra11/Help/poke_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/remove_eq_M11.mws...
Success... inserting topic Bigebra,remove_eq from the file:

C:\Maple11/P11/Bigebra11/Help/remove_eq_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/switch_M11.mws...
Success... inserting topic Bigebra,switch from the file:

C:\Maple11/P11/Bigebra11/Help/switch_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/tcollect_M11.mws...
Success... inserting topic Bigebra,tcollect from the file:

C:\Maple11/P11/Bigebra11/Help/tcollect_M11.mws
Trying to read file C:\Maple11/P11/Bigebra11/Help/tensorbasmonom_M11.mws...
Success... inserting topic Bigebra,tensorbasmonom from the file:

C:\Maple11/P11/Bigebra11/Help/tensorbasmonom_M11.mws

```
Trying to read file C:\Maple11/P11/Bigebra11/Help/tensormonom_M11.mws...
Success... inserting topic Bigebra,tensormonom from the file:
```

```
C:\Maple11/P11/Bigebra11/Help/tensormonom_M11.mws
```

```
Trying to read file C:\Maple11/P11/Bigebra11/Help/tensorpolynom_M11.mws...
Success... inserting topic Bigebra,type,tensorpolynom from the file:
```

```
C:\Maple11/P11/Bigebra11/Help/tensorpolynom_M11.mws
```

```
Trying to read file C:\Maple11/P11/Bigebra11/Help/tsolve1_M11.mws...
Success... inserting topic Bigebra,tsolve1 from the file:
```

```
C:\Maple11/P11/Bigebra11/Help/tsolve1_M11.mws
```

```
Trying to read file C:\Maple11/P11/Bigebra11/Help/VERSION_M11.mws...
Success... inserting topic Bigebra,VERSION from the file:
```

```
C:\Maple11/P11/Bigebra11/Help/VERSION_M11.mws
```

```
*****
```

```
Finished inserting 38 file topics into the HDB and Browser
```

```
*****
```

```
[ > #!?tensorpolynom
```

```
[ >
```

Inserting help pages for Cliplus:

```
[ > HDB_LIB_PATH:=convert(libname[1],name);  
HELP_FILE_PATH:=`C:\Maple11/P11/Cliplus11/Help/`;  
BROWSER_PATH:=`Mathematics/Algebra/`;  
ModuleName :=`Cliplus`;  
Parent :=`Cliplus,setup`;  
GrandParent :=`Clifford,intro`;  
MapleVersion:="M11";  
typesLIST:=[];  
convertsLIST:=["wedge_to_dwedge","dwedge_to_wedge"];
```

```
HDB_LIB_PATH := C:\Maple11/Cliffordlib
```

```
HELP_FILE_PATH := C:\Maple11/P11/Cliplus11/Help/
```

```
BROWSER_PATH := Mathematics/Algebra/
```

```
ModuleName := Cliplus
```

```
Parent := Cliplus,setup
```

```
GrandParent := Clifford,intro
```

```
MapleVersion := "M11"
```

```
typesLIST := [ ]
```

```
convertsLIST := ["wedge_to_dwedge","dwedge_to_wedge"]
```

Step 1: Generating an automatic list from help page files:

```
[ > Lauto:=makeLIST(ModuleName,Parent,GrandParent,HELP_FILE_PATH,Maple  
Version);
```

```

Lauto := [ [ Cliplus,&dw, Cliplus,setup, [ "Cliplus,&dw", "&dw" ] ],
  [ Cliplus,clibasis, Cliplus,setup, [ "Cliplus,clibasis", "clibasis" ] ],
  [ Cliplus,clieval, Cliplus,setup, [ "Cliplus,clieval", "clieval" ] ],
  [ Cliplus,cliexpand, Cliplus,setup, [ "Cliplus,cliexpand", "cliexpand" ] ],
  [ Cliplus,climul, Cliplus,setup, [ "Cliplus,climul", "climul" ] ],
  [ Cliplus,clirev, Cliplus,setup, [ "Cliplus,clirev", "clirev" ] ],
  [ Cliplus,dottedcbasis, Cliplus,setup, [ "Cliplus,dottedcbasis", "dottedcbasis" ] ],
  [ Cliplus,dwedge, Cliplus,setup, [ "Cliplus,dwedge", "dwedge" ] ], [
  Cliplus,convert,dwedge_to_wedge, Cliplus,setup,
  [ "Cliplus,convert,dwedge_to_wedge", "convert,dwedge_to_wedge" ] ],
  [ Cliplus,LCbig, Cliplus,setup, [ "Cliplus,LCbig", "LCbig" ] ],
  [ Cliplus,makeclaliases, Cliplus,setup, [ "Cliplus,makeclaliases", "makeclaliases" ] ],
  [ Cliplus,RCbig, Cliplus,setup, [ "Cliplus,RCbig", "RCbig" ] ],
  [ Cliplus,setup, Clifford,intro, [ "Cliplus,setup", "setup" ] ], [ Cliplus,convert,wedge_to_dwedge,
  Cliplus,setup, [ "Cliplus,convert,wedge_to_dwedge", "convert,wedge_to_dwedge" ] ] ]

```

[>

[**Step 2: Modifying, if needed, certain entries in Lauto list:**

```

> modsLIST := [
  [ `Cliplus, &dw`, [ "Cliplus, dwedge", "dwedge", "&dw", "Cliplus, &dw" ] ]
]:
> for mem in modsLIST do
  Lauto := modifyLIST (Lauto, op (mem) )
end do:
Lauto;

```

```

[[ Cliplus,&dw, Cliplus,setup, [ "Cliplus,dwedge", "dwedge", "&dw", "Cliplus,&dw" ] ],
  [ Cliplus,clibasis, Cliplus,setup, [ "Cliplus,clibasis", "clibasis" ] ],
  [ Cliplus,clieval, Cliplus,setup, [ "Cliplus,clieval", "clieval" ] ],
  [ Cliplus,cliexpand, Cliplus,setup, [ "Cliplus,cliexpand", "cliexpand" ] ],
  [ Cliplus,climul, Cliplus,setup, [ "Cliplus,climul", "climul" ] ],
  [ Cliplus,clirev, Cliplus,setup, [ "Cliplus,clirev", "clirev" ] ],
  [ Cliplus,dottedcbasis, Cliplus,setup, [ "Cliplus,dottedcbasis", "dottedcbasis" ] ],
  [ Cliplus,dwedge, Cliplus,setup, [ "Cliplus,dwedge", "dwedge" ] ], [
  Cliplus,convert,dwedge_to_wedge, Cliplus,setup,
  [ "Cliplus,convert,dwedge_to_wedge", "convert,dwedge_to_wedge" ] ],
  [ Cliplus,LCbig, Cliplus,setup, [ "Cliplus,LCbig", "LCbig" ] ],
  [ Cliplus,makeclaliases, Cliplus,setup, [ "Cliplus,makeclaliases", "makeclaliases" ] ],
  [ Cliplus,RCbig, Cliplus,setup, [ "Cliplus,RCbig", "RCbig" ] ],
  [ Cliplus,setup, Clifford,intro, [ "Cliplus,setup", "setup" ] ], [ Cliplus,convert,wedge_to_dwedge,

```

```
[ Cliplus,setup, ["Cliplus,convert,wedge_to_dwedge", "convert,wedge_to_dwedge"]]]
```

```
[ >
```

```
[ Step 3: Inserting all help pages into HDB and the browser using the last modified list:
```

```
[ > insert_helppages (Lauto, MapleVersion) ;
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/&dw_M11.mws...
```

```
Success... inserting topic Cliplus,&dw from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/&dw_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/clibasis_M11.mws...
```

```
Success... inserting topic Cliplus,clibasis from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/clibasis_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/clieval_M11.mws...
```

```
Success... inserting topic Cliplus,clieval from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/clieval_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/cliexpand_M11.mws...
```

```
Success... inserting topic Cliplus,cliexpand from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/cliexpand_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/climul_M11.mws...
```

```
Success... inserting topic Cliplus,climul from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/climul_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/clirev_M11.mws...
```

```
Success... inserting topic Cliplus,clirev from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/clirev_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/dottedcbasis_M11.mws...
```

```
Success... inserting topic Cliplus,dottedcbasis from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/dottedcbasis_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/dwedge_M11.mws...
```

```
Success... inserting topic Cliplus,dwedge from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/dwedge_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/dwedge_to_wedge_M11.mws...
```

```
Success... inserting topic Cliplus,convert,dwedge_to_wedge from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/dwedge_to_wedge_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/LCbig_M11.mws...
```

```
Success... inserting topic Cliplus,LCbig from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/LCbig_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/makeclialias_M11.mws...
```

```
Success... inserting topic Cliplus,makeclialias from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/makeclialias_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/RCbig_M11.mws...
```

```
Success... inserting topic Cliplus,RCbig from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/RCbig_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/setup_M11.mws...
```

```
Success... inserting topic Cliplus,setup from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/setup_M11.mws
```

```
Trying to read file C:\Maple11/P11/Cliplus11/Help/wedge_to_dwedge_M11.mws...
```

```
Success... inserting topic Cliplus,convert,wedge_to_dwedge from the file:
```

```
C:\Maple11/P11/Cliplus11/Help/wedge_to_dwedge_M11.mws
```

```
*****
```

```
Finished inserting 14 file topics into the HDB and Browser
```

```
*****
```

```
[ > #?setup
```

Inserting help pages for GTP:

```
> HDB_LIB_PATH:=convert(libname[1],name);
HELP_FILE_PATH:=`C:\Maple11/P11/GTP11/Help/`;
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`GTP`;
Parent :=`Clifford,setup`;
GrandParent :=`Clifford,intro`;
MapleVersion:="M11";
typesLIST:=["gradedeven", "gradedmonom", "gradedodd", "gradedpolynom"
];
converts:=[];
```

```
HDB_LIB_PATH := C:\Maple11\Cliffordlib
HELP_FILE_PATH := C:\Maple11/P11/GTP11/Help/
BROWSER_PATH := Mathematics/Algebra/
ModuleName := GTP
Parent := Clifford,setup
GrandParent := Clifford,intro
MapleVersion := "M11"
typesLIST := ["gradedeven", "gradedmonom", "gradedodd", "gradedpolynom"]
converts := [ ]
```

```
[ >
```

Step 1: Generating an automatic list from help page files:

```
> Lauto:=makeLIST(ModuleName,Parent,GrandParent,HELP_FILE_PATH,Maple
Version);
```

```
Lauto := [[ GTP,&t, Clifford,setup, ["GTP,&t", "&t"]],
[ GTP,cmulB, Clifford,setup, ["GTP,cmulB", "cmulB"]],
[ GTP,gbasis, Clifford,setup, ["GTP,gbasis", "gbasis"]],
[ GTP,gcollect, Clifford,setup, ["GTP,gcollect", "gcollect"]],
[ GTP,gprod, Clifford,setup, ["GTP,gprod", "gprod"]],
[ GTP,type,gradedeven, Clifford,setup, ["GTP,type,gradedeven", "type,gradedeven"]],
[ GTP,type,gradedmonom, Clifford,setup, ["GTP,type,gradedmonom", "type,gradedmonom"]],
[ GTP,type,gradedodd, Clifford,setup, ["GTP,type,gradedodd", "type,gradedodd"]],
[ GTP,type,gradedpolynom, Clifford,setup, ["GTP,type,gradedpolynom", "type,gradedpolynom"]],
, [ GTP,gradedprod, Clifford,setup, ["GTP,gradedprod", "gradedprod"]],
```

```
[ GTP,grade, Clifford,setup, ["GTP,grade", "grade"]],  
[ GTP,tensorranks, Clifford,setup, ["GTP,tensorranks", "tensorranks"]]]
```

```
[ >
```

```
[ Step 2: Modifying, if needed, certain entries in Lauto list:
```

```
> modsLIST:=  
[ `GTP,cmulB` , ["GTP,cmulB", "cmulB", "cmul"] ]  
]:  
> for mem in modsLIST do  
    Lauto:=modifyLIST(Lauto,op(mem))  
end do:  
Lauto;
```

```
[[ GTP,&t, Clifford,setup, ["GTP,&t", "&t"]],  
[ GTP,cmulB, Clifford,setup, ["GTP,cmulB", "cmulB", "cmul"]],  
[ GTP,gbasis, Clifford,setup, ["GTP,gbasis", "gbasis"]],  
[ GTP,gcollect, Clifford,setup, ["GTP,gcollect", "gcollect"]],  
[ GTP,gprod, Clifford,setup, ["GTP,gprod", "gprod"]],  
[ GTP,type,gradedeven, Clifford,setup, ["GTP,type,gradedeven", "type,gradedeven"]],  
[ GTP,type,gradedmonom, Clifford,setup, ["GTP,type,gradedmonom", "type,gradedmonom"]],  
[ GTP,type,gradedodd, Clifford,setup, ["GTP,type,gradedodd", "type,gradedodd"]],  
[ GTP,type,gradedpolynom, Clifford,setup, ["GTP,type,gradedpolynom", "type,gradedpolynom"] ]  
, [ GTP,gradedprod, Clifford,setup, ["GTP,gradedprod", "gradedprod"]],  
[ GTP,grade, Clifford,setup, ["GTP,grade", "grade"]],  
[ GTP,tensorranks, Clifford,setup, ["GTP,tensorranks", "tensorranks"]]]
```

```
[ >
```

```
[ Step 3: Inserting all help pages into HDB and the browser using the last modified list:
```

```
> insert_helppages(Lauto,MapleVersion);  
Trying to read file C:\Maple11/P11/GTP11/Help/&t_M11.mws...  
Success... inserting topic GTP,&t from the file:  
C:\Maple11/P11/GTP11/Help/&t_M11.mws  
Trying to read file C:\Maple11/P11/GTP11/Help/cmulB_M11.mws...  
Success... inserting topic GTP,cmulB from the file:  
C:\Maple11/P11/GTP11/Help/cmulB_M11.mws  
Trying to read file C:\Maple11/P11/GTP11/Help/gbasis_M11.mws...  
Success... inserting topic GTP,gbasis from the file:  
C:\Maple11/P11/GTP11/Help/gbasis_M11.mws  
Trying to read file C:\Maple11/P11/GTP11/Help/gcollect_M11.mws...  
Success... inserting topic GTP,gcollect from the file:  
C:\Maple11/P11/GTP11/Help/gcollect_M11.mws  
Trying to read file C:\Maple11/P11/GTP11/Help/gprod_M11.mws...  
Success... inserting topic GTP,gprod from the file:  
C:\Maple11/P11/GTP11/Help/gprod_M11.mws  
Trying to read file C:\Maple11/P11/GTP11/Help/gradedeven_M11.mws...  
Success... inserting topic GTP,type,gradedeven from the file:
```

C:\Maple11/P11/GTP11/Help/gradedeven_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/gradedmonom_M11.mws...
Success... inserting topic GTP,type,gradedmonom from the file:

C:\Maple11/P11/GTP11/Help/gradedmonom_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/gradedodd_M11.mws...
Success... inserting topic GTP,type,gradedodd from the file:

C:\Maple11/P11/GTP11/Help/gradedodd_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/gradedpolynom_M11.mws...
Success... inserting topic GTP,type,gradedpolynom from the file:

C:\Maple11/P11/GTP11/Help/gradedpolynom_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/gradedprod_M11.mws...
Success... inserting topic GTP,gradedprod from the file:

C:\Maple11/P11/GTP11/Help/gradedprod_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/grade_M11.mws...
Success... inserting topic GTP,grade from the file:

C:\Maple11/P11/GTP11/Help/grade_M11.mws

Trying to read file C:\Maple11/P11/GTP11/Help/tensorrang_M11.mws...
Success... inserting topic GTP,tensorrang from the file:

C:\Maple11/P11/GTP11/Help/tensorrang_M11.mws

Finished inserting 12 file topics into the HDB and Browser

[> **##?cmulB**

[>

[> **#####**

[**Inserting help pages for Octonion:**

```
> HDB_LIB_PATH:=convert(libname[1],name);
HELP_FILE_PATH:=`C:\Maple11/P11/Octonion11/Help/`;
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`Octonion`;
Parent :=`Octonion,setup`;
GrandParent :=`Clifford,intro`;
MapleVersion:="M11";
typesLIST :=["Fano_triples","octonion"];
convertsLIST:=[];
```

HDB_LIB_PATH := C:\Maple11/Cliffordlib

HELP_FILE_PATH := C:\Maple11/P11/Octonion11/Help/

BROWSER_PATH := Mathematics/Algebra/

ModuleName := Octonion

Parent := Octonion,setup

GrandParent := Clifford,intro

```

MapleVersion := "M11"
typesLIST := ["Fano_triples", "octonion"]
convertsLIST := [ ]

```

Step 1: Generating an automatic list from help page files:

```

> Lauto:=makeLIST (ModuleName, Parent, GrandParent, HELP_FILE_PATH, Maple
Version) ;

```

```

Lauto := [[ Octonion,associator, Octonion,setup, ["Octonion,associator", "associator"]],
 [ Octonion,commutator, Octonion,setup, ["Octonion,commutator", "commutator"]],
 [ Octonion,def_omultable, Octonion,setup, ["Octonion,def_omultable", "def_omultable"]], [
 Octonion,type,Fano_triples, Octonion,setup, ["Octonion,type,Fano_triples", "type,Fano_triples"]]
, [ Octonion,type,octonion, Octonion,setup, ["Octonion,type,octonion", "type,octonion"]],
 [ Octonion,oinv, Octonion,setup, ["Octonion,oinv", "oinv"]],
 [ Octonion,omultable, Octonion,setup, ["Octonion,omultable", "omultable"]],
 [ Octonion,omul, Octonion,setup, ["Octonion,omul", "omul"]],
 [ Octonion,onorm, Octonion,setup, ["Octonion,onorm", "onorm"]],
 [ Octonion,oversion, Octonion,setup, ["Octonion,oversion", "oversion"]],
 [ Octonion,o_conjug, Octonion,setup, ["Octonion,o_conjug", "o_conjug"]],
 [ Octonion,Phi, Octonion,setup, ["Octonion,Phi", "Phi"]],
 [ Octonion,purevectorpart, Octonion,setup, ["Octonion,purevectorpart", "purevectorpart"]],
 [ Octonion,realpart, Octonion,setup, ["Octonion,realpart", "realpart"]],
 [ Octonion,setup, Clifford,intro, ["Octonion,setup", "setup"]] ]

```

>

Step 2: Modifying, if needed, certain entries in Lauto list:

```

> modsLIST:= [
  [ `Octonion,omul` , ["Octonion,omul", "omul", "&o", "octonion", "Octonion
"]] ]:

```

```

> for mem in modsLIST do
  Lauto:=modifyLIST (Lauto, op (mem) )
end do:
Lauto;

```

```

[[ Octonion,associator, Octonion,setup, ["Octonion,associator", "associator"]],
 [ Octonion,commutator, Octonion,setup, ["Octonion,commutator", "commutator"]],
 [ Octonion,def_omultable, Octonion,setup, ["Octonion,def_omultable", "def_omultable"]], [
 Octonion,type,Fano_triples, Octonion,setup, ["Octonion,type,Fano_triples", "type,Fano_triples"]]
, [ Octonion,type,octonion, Octonion,setup, ["Octonion,type,octonion", "type,octonion"]],
 [ Octonion,oinv, Octonion,setup, ["Octonion,oinv", "oinv"]],

```

```
[ Octonion,omultable, Octonion,setup, ["Octonion,omultable", "omultable"]],
[ Octonion,omul, Octonion,setup, ["Octonion,omul", "omul", "&o", "octonion", "Octonion"]],
[ Octonion,onorm, Octonion,setup, ["Octonion,onorm", "onorm"]],
[ Octonion,oversion, Octonion,setup, ["Octonion,oversion", "oversion"]],
[ Octonion,o_conjug, Octonion,setup, ["Octonion,o_conjug", "o_conjug"]],
[ Octonion,Phi, Octonion,setup, ["Octonion,Phi", "Phi"]],
[ Octonion,purevectorpart, Octonion,setup, ["Octonion,purevectorpart", "purevectorpart"]],
[ Octonion,realpart, Octonion,setup, ["Octonion,realpart", "realpart"]],
[ Octonion,setup, Clifford,intro, ["Octonion,setup", "setup"]]]
```

>

Step 3: Inserting all help pages into HDB and the browser using the last modified list:

> **insert_helppages (Lauto, MapleVersion) ;**

Trying to read file C:\Maple11\P11\Octonion11\Help\associator_M11.mws...
Success... inserting topic Octonion,associator from the file:

C:\Maple11\P11\Octonion11\Help\associator_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\commutator_M11.mws...
Success... inserting topic Octonion,commutator from the file:

C:\Maple11\P11\Octonion11\Help\commutator_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\def_omultable_M11.mws...
Success... inserting topic Octonion,def_omultable from the file:

C:\Maple11\P11\Octonion11\Help\def_omultable_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\Fano_triples_M11.mws...
Success... inserting topic Octonion,type,Fano_triples from the file:

C:\Maple11\P11\Octonion11\Help\Fano_triples_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\octonion_M11.mws...
Success... inserting topic Octonion,type,octonion from the file:

C:\Maple11\P11\Octonion11\Help\octonion_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\oinv_M11.mws...
Success... inserting topic Octonion,oinv from the file:

C:\Maple11\P11\Octonion11\Help\oinv_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\omultable_M11.mws...
Success... inserting topic Octonion,omultable from the file:

C:\Maple11\P11\Octonion11\Help\omultable_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\omul_M11.mws...
Success... inserting topic Octonion,omul from the file:

C:\Maple11\P11\Octonion11\Help\omul_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\onorm_M11.mws...
Success... inserting topic Octonion,onorm from the file:

C:\Maple11\P11\Octonion11\Help\onorm_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\oversion_M11.mws...
Success... inserting topic Octonion,oversion from the file:

C:\Maple11\P11\Octonion11\Help\oversion_M11.mws

Trying to read file C:\Maple11\P11\Octonion11\Help\o_conjug_M11.mws...
Success... inserting topic Octonion,o_conjug from the file:

C:\Maple11\P11\Octonion11\Help\o_conjug_M11.mws

Trying to read file C:\Maple11/P11/Octonion11/Help/Phi_M11.mws...
Success... inserting topic Octonion,Phi from the file:

C:\Maple11/P11/Octonion11/Help/Phi_M11.mws

Trying to read file C:\Maple11/P11/Octonion11/Help/purevectorpart_M11.mws...
Success... inserting topic Octonion,purevectorpart from the file:

C:\Maple11/P11/Octonion11/Help/purevectorpart_M11.mws

Trying to read file C:\Maple11/P11/Octonion11/Help/realpart_M11.mws...
Success... inserting topic Octonion,realpart from the file:

C:\Maple11/P11/Octonion11/Help/realpart_M11.mws

Trying to read file C:\Maple11/P11/Octonion11/Help/setup_M11.mws...
Success... inserting topic Octonion,setup from the file:

C:\Maple11/P11/Octonion11/Help/setup_M11.mws

Finished inserting 15 file topics into the HDB and Browser

```
> #####  
##list of types defined in the module  
#####  
typesLIST:=["antisymmatrix", "clibasmon", "climatrix", "climon", "clip  
olynom",  
  
"cliprod", "cliscalar", "diagmatrix", "dfmatrix", "evenelement",  
  
"fieldelement", "gencomplex", "genquatbasis", "genquaternion",  
  
"idempotent", "nilpotent", "oddelement", "primitiveidemp", "purequatba  
sis",  
  
"quaternion", "symmatrix", "tensorprod"];  
#####  
##list of types converts defined in the module  
#####  
convertsLIST:=["mlist", "str_to_int"];  
typesLIST := ["antisymmatrix", "clibasmon", "climatrix", "climon", "clipolynom", "cliprod",  
"cliscalar", "diagmatrix", "dfmatrix", "evenelement", "fieldelement", "gencomplex",  
"genquatbasis", "genquaternion", "idempotent", "nilpotent", "oddelement", "primitiveidemp",  
"purequatbasis", "quaternion", "symmatrix", "tensorprod"]  
  
convertsLIST := ["mlist", "str_to_int"]
```

>

Inserting help pages for SchurFkt:

```
> HDB_LIB_PATH:=convert(libname[1], name);  
HELP_FILE_PATH:=`C:\Maple11/P11/SchurFkt11/Help/`;  
BROWSER_PATH:=`Mathematics/Algebra/`;  
ModuleName :=`SchurFkt`;
```

```

Parent      := `SchurFkt,Overview` ;
GrandParent := `Algebra` ;
MapleVersion:="M11";
#####
##list of types defined in the module
#####
typesLIST:=["sfktmonom", "sfktterm", "sfktpolynom",
            "pfktmonom", "pfktterm", "pfktpolynom",
            "mfktmonom", "mfktterm", "mfktpolynom",
            "hfktmonom", "hfktterm", "hfktpolynom",
            "efktmonom", "efktterm", "efktpolynom",
            "ffktmonom", "ffktterm", "ffktpolynom"
            ];
#####
##list of types converts defined in the module
#####
convertsLIST:=[] ;

```

```

HDB_LIB_PATH := C:\Maple11\Cliffordlib
HELP_FILE_PATH := C:\Maple11/P11/SchurFkt11/Help/
BROWSER_PATH := Mathematics/Algebra/
ModuleName := SchurFkt
Parent := SchurFkt,Overview
GrandParent := Algebra
MapleVersion := "M11"

```

```

typesLIST := ["sfktmonom", "sfktterm", "sfktpolynom", "pfktmonom", "pfktterm", "pfktpolynom",
            "mfktmonom", "mfktterm", "mfktpolynom", "hfktmonom", "hfktterm", "hfktpolynom",
            "efktmonom", "efktterm", "efktpolynom", "ffktmonom", "ffktterm", "ffktpolynom"]
convertsLIST := [ ]

```

```

> L:=with(SchurFkt) ;

```

```

L := [ AlexComp, CharHook, CompNM, FLAT, Frob2part, GesselThetaP, GesselThetaS,
      KostkaPC, KostkaTable, LaplaceM, LaplaceM_mon, LaplaceTable, MLIN, MurNak, MurNak2,
      PartNM, Scalar, ScalarHM, ScalarMH, ScalarP, antipE, antipH, antipM, antipMC, antipP,
      antipS, branch, cinner, cinnerP, cmp2part, cmp2prtMult, concatM, conjpart, counitInnerP,
      counitInnerS, couter, couterE, couterH, couterM, couterON, couterP, cplethP, cplethS, dimSN,
      e_to_h, e_to_s, evalJacobiTrudiMatrix, getSfktSeries, grAlexComp, h_to_m, h_to_s, inner, innerH,
      innerP, isLattice, m_to_p, maxlengthSymFkt, mset2part, outer, outerE, outerH, outerM, outerON,
      outerP, outerS, p_to_m, p_to_s, part2Frob, part2mset, plethP, plethS, plethSnm, s_to_h, s_to_hJT,
      s_to_hmat, s_to_p, s_to_x, skew, sq_coeff, truncLEN, truncWT, x_to_s, zee ]

```

```

> #for m in L do
  #item:=convert(cat("Mathematics/Algebra/SchurFkt/",convert(m,string)),symbol);
  #INTERFACE_HELP('delete',browser=item,helpfile=HDB_LIB_PATH);
#end do;
> #m:="type";
> #item:=convert(cat("Mathematics/Algebra/SchurFkt/",convert(m,string)),symbol);
  #INTERFACE_HELP('delete',browser=item,helpfile=HDB_LIB_PATH);
> #?SchurFkt
>
> ###From Bertfried
  #### types
  #
  #   type/sfktmonom`, `type/sfktterm`, `type/sfktpolynom`,
  #
  #
  [#SchurFkt,type,sfktpolynom`,Parent,["SchurFkt,type,sfktmonom","SchurFkt,type,sfktterm","SchurFkt,type,sfktpolynom"]],
  #
  [#SchurFkt,type`,Parent,["SchurFkt,type,pfktmonom","SchurFkt,type,pfktterm","SchurFkt,type,pfktpolynom"]],
  #
  [#SchurFkt,type`,Parent,["SchurFkt,type,mfktmonom","SchurFkt,type,mfktterm","SchurFkt,type,mfktpolynom"]],
  #
  [#SchurFkt,type`,Parent,["SchurFkt,type,hfktmonom","SchurFkt,type,hfktterm","SchurFkt,type,hfktpolynom"]],
  #
  [#SchurFkt,type`,Parent,["SchurFkt,type,efktmonom","SchurFkt,type,efktterm","SchurFkt,type,efktpolynom"]],
  #
  [#SchurFkt,type`,Parent,["SchurFkt,type,ffktmonom","SchurFkt,type,ffktterm","SchurFkt,type,ffktpolynom"]]

```

Step 1: Generating an automatic list from help page files:

```

> Lauto:=makeLIST(ModuleName,Parent,GrandParent,HELP_FILE_PATH,Maple
Version);
Lauto := [[SchurFkt,AlexComp, SchurFkt,Overview, ["SchurFkt,AlexComp", "AlexComp"]],
  [SchurFkt,antipS, SchurFkt,Overview, ["SchurFkt,antipS", "antipS"]],
  [SchurFkt,branch, SchurFkt,Overview, ["SchurFkt,branch", "branch"]],

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[*SchurFkt,CharHook, SchurFkt,Overview*, ["SchurFkt,CharHook", "CharHook"]],
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[*SchurFkt,cmp2part, SchurFkt,Overview*, ["SchurFkt,cmp2part", "cmp2part"]],
[*SchurFkt,cmp2prtMult, SchurFkt,Overview*, ["SchurFkt,cmp2prtMult", "cmp2prtMult"]],
[*SchurFkt,CompNM, SchurFkt,Overview*, ["SchurFkt,CompNM", "CompNM"]],
[*SchurFkt,concatM, SchurFkt,Overview*, ["SchurFkt,concatM", "concatM"]],
[*SchurFkt,conjpart, SchurFkt,Overview*, ["SchurFkt,conjpart", "conjpart"]],
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[*SchurFkt,couterH, SchurFkt,Overview*, ["SchurFkt,couterH", "couterH"]],
[*SchurFkt,couterM, SchurFkt,Overview*, ["SchurFkt,couterM", "couterM"]],
[*SchurFkt,couterON, SchurFkt,Overview*, ["SchurFkt,couterON", "couterON"]],
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[*SchurFkt,dimSN, SchurFkt,Overview*, ["SchurFkt,dimSN", "dimSN"]],
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[*SchurFkt,getSfktSeries, SchurFkt,Overview*, ["SchurFkt,getSfktSeries", "getSfktSeries"]],
[*SchurFkt,grAlexComp, SchurFkt,Overview*, ["SchurFkt,grAlexComp", "grAlexComp"]],
[*SchurFkt,h_to_s, SchurFkt,Overview*, ["SchurFkt,h_to_s", "h_to_s"]],
[*SchurFkt,innerP, SchurFkt,Overview*, ["SchurFkt,innerP", "innerP"]],
[*SchurFkt,inner, SchurFkt,Overview*, ["SchurFkt,inner", "inner"]],
[*SchurFkt,isLattice, SchurFkt,Overview*, ["SchurFkt,isLattice", "isLattice"]],
[*SchurFkt,KostkaPC, SchurFkt,Overview*, ["SchurFkt,KostkaPC", "KostkaPC"]],
[*SchurFkt,KostkaTable, SchurFkt,Overview*, ["SchurFkt,KostkaTable", "KostkaTable"]],
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[*SchurFkt,LaplaceM_mon, SchurFkt,Overview*, ["SchurFkt,LaplaceM_mon", "LaplaceM_mon"]],
, [*SchurFkt,LaplaceTable, SchurFkt,Overview*, ["SchurFkt,LaplaceTable", "LaplaceTable"]],
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[*SchurFkt,mset2part, SchurFkt,Overview*, ["SchurFkt,mset2part", "mset2part"]],
[*SchurFkt,MurNak2, SchurFkt,Overview*, ["SchurFkt,MurNak2", "MurNak2"]],
[*SchurFkt,MurNak, SchurFkt,Overview*, ["SchurFkt,MurNak", "MurNak"]],
[*SchurFkt,m_to_p, SchurFkt,Overview*, ["SchurFkt,m_to_p", "m_to_p"]],

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[SchurFkt,zee, SchurFkt,Overview, ["SchurFkt,zee", "zee"]]

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[>

[**Step 2: Modifying, if needed, certain entries in Lauto list:**

[>

[> **###From Bertfried**

###Bertfried: Please do not insert Grandparent or parent into this list:

[> **L:=["`SchurFkt,Overview`, [**

"SchurFkt", "Schurfkt", "schurfkt", "help", "SchurFkt,help", "schurfkt, help",

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"Schurfkt,Overview", "SchurFkt,overview", "schurfkt,overview",
  "Symmetric functions", "Schur functions"]],
  [`SchurFkt,AlexComp`, ["Anti Lexicographical Ordering"]],
  [`SchurFkt,CharHook`, ["hook", "hook Schur function"]],
  [`SchurFkt,CompNM`, ["generate compositions"]],
  [`SchurFkt,FLAT`, ["flattening", "associativity"]],
  [`SchurFkt,Frob2part`, ["partition", "Frobenius partition"]],
  [`SchurFkt,GesselTheta`, ["GesselThetaS", "GesselThetaP"]],
  [`SchurFkt,KostkaPC`, ["Kostka
matrix", "partition", "composition"]],
  [`SchurFkt,KostkaTable`, ["Kostka
matrix", "partition", "composition"]],
  [`SchurFkt,LaplaceM`, ["Laplace pairing", "monomial symmetric
functions", "cliffordization"]],
  #   [`SchurFkt,LaplaceM_mon`, ["Laplace pairing on
monomials", "monomial symmetric functions"]],
  [`SchurFkt,LaplaceTable`, ["Laplace
matrix", "cliffordization"]],
  [`SchurFkt,MLIN`, ["multi linear", "tensor product"]],
  [`SchurFkt,MurNak`, ["Murnaghan
Nakayama", "rule", "character"]],
  [`SchurFkt,MurNak2`, ["Murnaghan
Nakayama", "rule", "character"]],
  [`SchurFkt,PartNM`, ["partition", "generation of partitions"]],
  [`SchurFkt,Scalar`, ["Redfield", "Hall", "Schur", "Schur Hall
scalar product", "Schur functions", "symmetric functions"]],
  #   [`SchurFkt,ScalarHM`, ["Redfield", "Hall", "Schur", "Schur Hall
scalar product", "Schur functions", "complete symmetric
functions", "monomial symmetric functions"]],
  #   [`SchurFkt,ScalarMH`, ["Redfield", "Hall", "Schur", "Schur Hall
scalar product", "Schur functions", "complete symmetric
functions", "monomial symmetric functions"]],
  [`SchurFkt,ScalarP`, ["Redfield", "Hall", "Schur", "Schur Hall
scalar product", "power sum symmetric functions"]],
  [`SchurFkt,antipS`, ["antipode", "outer Hopf algebra"]],
  [`SchurFkt,branch`, ["group
branching", "induction", "subduction", "reduction"]],
  [`SchurFkt,cinner`, ["inner coproduct"]],
  [`SchurFkt,cmp2part`, ["composition", "composition projected to
partition"]],
  [`SchurFkt,cmp2prtMult`, ["composition", "composition as
multiset"]],

```

```

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coproduct"]],
    [ `SchurFkt,couterE`, ["outer coproduct", "Schur outer
coproduct", "elementary symmetric functions"]],
    [ `SchurFkt,couterH`, ["outer coproduct", "Schur outer
coproduct", "complete symmetric functions"]],
    [ `SchurFkt,couterM`, ["ouert coproduct", "monomial
coproduct"]],
    [ `SchurFkt,couterON`, ["outer coproduct", "Schur outer
coproduct", "orthogonal Schur functions"]],
    [ `SchurFkt,couterP`, ["ouert coproduct", "power sum
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    [ `SchurFkt,cplethS`, ["plethysm coproduct Schur functions"]],
    [ `SchurFkt,cplethP`, ["plethysm coproduct power sum basis"]],
    [ `SchurFkt,dimSN`, ["SchurFkt,Overview", "sfkt polynom"]],
    [ `SchurFkt,getSfktSeries`, ["S-function", "Schur function
series"]],
    [ `SchurFkt,grAlexComp`, ["graded anti lexicographic
ordering"]],
    [ `SchurFkt,h_to_s`, ["homogeneous symmetric functions", "Schur
functions"]],
    [ `SchurFkt,inner`, ["inner product", "Schur function inner
product"]],
    [ `SchurFkt,innerP`, ["inner product", "power sum inner
product"]],
    [ `SchurFkt,isLattice`, ["lattice permutation test"]],
    [ `SchurFkt,m_to_p`, ["monomial symmetric functions", "power sum
symmetric functions"]],
    [ `SchurFkt,mset2part`, ["multiset partition", "partition"]],
    [ `SchurFkt,outer`, ["outer product", "Schur
functions", "symmetric functions"]],
    [ `SchurFkt,outerE`, ["outer product", "elementary symmetric
functions"]],
    [ `SchurFkt,outerH`, ["outer product", "complete symmetric
functions"]],
    [ `SchurFkt,outerM`, ["outer product", "monomial symmetric
functions"]],
    [ `SchurFkt,outerON`, ["outer product", "orthogonal Schur
functions"]],

```

```

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functions"] ],
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symmetric function"] ],
    [ `SchurFkt,p_to_s` , ["power sum symmetric function", "Schur
function", "symmetric function"] ],
    [ `SchurFkt,part2Frob` , ["partition", "Frobenius notation"] ],
    [ `SchurFkt,part2mset` , ["partition", "partition in multiset
notation"] ],
    [ `SchurFkt,plethS` , ["plethysm", "Schur function plethysm"] ],
    [ `SchurFkt,plethP` , ["plethysm", "power sum plethysm"] ],
    [ `SchurFkt,s_to_h` , ["Schur functions", "symmetric
functions", "complete symmetric functions"] ],
    [ `SchurFkt,s_to_p` , ["Schur functions", "symmetric
functions", "power sum symmetric functions"] ],
    [ `SchurFkt,s_to_x` , ["Schur functions", "symmetric
functions", "indeterminants", "alphabet"] ],
    [ `SchurFkt,skew` , ["skew", "Foulkes derivative", "Littlewood
Richardson rule"] ],
    [ `SchurFkt,sq_coeff` , ["coefficients", "dimension"] ],
    [ `SchurFkt,truncWT` , ["weight", "truncate", "Schur function
series"] ],
    [ `SchurFkt,x_to_s` , ["alphabet", "Schur functions", "symmetric
functions", "indeterminants"] ],
    [ `SchurFkt,zee` , ["permutation", "normalization", "zee", "z"] ]
]:

```

[>

[>

> **modsLIST:= [op(L)] ;**

```

modsLIST := [ [SchurFkt,Overview, ["SchurFkt", "Schurfkt", "schurfkt", "help", "SchurFkt,help",
"schurfkt,help", "Schurfkt,Overview", "SchurFkt,overview", "schurfkt,overview",
"Symmetric functions", "Schur functions"] ],
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[SchurFkt,CharHook, ["hook", "hook Schur function"] ],
[SchurFkt,CompNM, ["generate compositions"] ],
[SchurFkt,FLAT, ["flattening", "associativity"] ],
[SchurFkt,Frob2part, ["partition", "Frobenius partition"] ],
[SchurFkt,GesselTheta, ["GesselThetaS", "GesselThetaP"] ],
[SchurFkt,KostkaPC, ["Kostka matrix", "partition", "composition"] ],

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 [*SchurFkt,LaplaceM*, ["Laplace pairing", "monomial symmetric functions", "cliffordization"]],
 [*SchurFkt,LaplaceTable*, ["Laplace matrix", "cliffordization"]],
 [*SchurFkt,MLIN*, ["multi linear", "tensor product"]],
 [*SchurFkt,MurNak*, ["Murnaghan Nakayama", "rule", "character"]],
 [*SchurFkt,MurNak2*, ["Murnaghan Nakayama", "rule", "character"]],
 [*SchurFkt,PartNM*, ["partition", "generation of partitions"]], [*SchurFkt,Scalar*, [
 "Redfield", "Hall", "Schur", "Schur Hall scalar product", "Schur functions", "symmetric functions"
]], [*SchurFkt,ScalarP*,
 ["Redfield", "Hall", "Schur", "Schur Hall scalar product", "power sum symmetric functions"]],
 [*SchurFkt,antipS*, ["antipode", "outer Hopf algebra"]],
 [*SchurFkt,branch*, ["group branching", "induction", "subduction", "reduction"]],
 [*SchurFkt,cinner*, ["inner coproduct"]],
 [*SchurFkt,cmp2part*, ["composition", "composition projected to partition"]],
 [*SchurFkt,cmp2prtMult*, ["composition", "composition as multiset"]],
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]], [*SchurFkt,couterM*, ["ouert coproduct", "monomial coproduct"]], [
SchurFkt,couterON, ["outer coproduct", "Schur outer coproduct", "orthogonal Schur functions"]],
 [*SchurFkt,couterP*, ["ouert coproduct", "power sum coproduct"]],
 [*SchurFkt,cplethS*, ["plethysm coproduct Schur functions"]],
 [*SchurFkt,cplethP*, ["plethysm coproduct power sum basis"]],
 [*SchurFkt,dimSN*, ["SchurFkt,Overview", "sftk polynom"]],
 [*SchurFkt,getSfktSeries*, ["S-function", "Schur function series"]],
 [*SchurFkt,grAlexComp*, ["graded anti lexicographic ordering"]],
 [*SchurFkt,h_to_s*, ["homogeneous symmetric functions", "Schur functions"]],
 [*SchurFkt,inner*, ["inner product", "Schur function inner product"]],
 [*SchurFkt,innerP*, ["inner product", "power sum inner product"]],
 [*SchurFkt,isLattice*, ["lattice permutation test"]],
 [*SchurFkt,m_to_p*, ["monomial symmetric functions", "power sum symmetric functions"]],
 [*SchurFkt,mset2part*, ["multiset partition", "partition"]],
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 [*SchurFkt,x_to_s*, ["alphabet", "Schur functions", "symmetric functions", "indeterminants"]],
 [*SchurFkt,zee*, ["permutation", "normalization", "zee", "z"]]

```

> for mem in modsLIST do
    Lauto:=modifyLIST(Lauto,op(mem))
end do:
Lauto;
  
```

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["SchurFkt,type,sfktpolynom", "type,sfktpolynom"]], [
SchurFkt,skew, SchurFkt,Overview, ["skew", "Foulkes derivative", "Littlewood Richardson rule"
]], [SchurFkt,sq_coeff, SchurFkt,Overview, ["coefficients", "dimension"]], [SchurFkt,s_to_h,
SchurFkt,Overview, ["Schur functions", "symmetric functions", "complete symmetric functions"
]], [SchurFkt,s_to_p, SchurFkt,Overview,
["Schur functions", "symmetric functions", "power sum symmetric functions"]], [
SchurFkt,s_to_x, SchurFkt,Overview,
["Schur functions", "symmetric functions", "indeterminants", "alphabet"]],
[SchurFkt,truncWT, SchurFkt,Overview, ["weight", "truncate", "Schur function series"]], [
SchurFkt,x_to_s, SchurFkt,Overview,
["alphabet", "Schur functions", "symmetric functions", "indeterminants"]],
[SchurFkt,zee, SchurFkt,Overview, ["permutation", "normalization", "zee", "z"]]

```

>

Step 3: Inserting all help pages into HDB and the browser using the last modified list:

```
> insert_helppages (Lauto, MapleVersion) ;
```

```
Trying to read file C:\Maple11\P11\SchurFkt11\Help\AlexComp_M11.mws...
Success... inserting topic SchurFkt,AlexComp from the file:
```

```
                C:\Maple11\P11\SchurFkt11\Help\AlexComp_M11.mws
```

```
Trying to read file C:\Maple11\P11\SchurFkt11\Help\antipS_M11.mws...
```

Success... inserting topic SchurFkt,antipS from the file:
C:\Maple11/P11/SchurFkt11/Help/antipS_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/branch_M11.mws...
Success... inserting topic SchurFkt,branch from the file:
C:\Maple11/P11/SchurFkt11/Help/branch_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/CharHook_M11.mws...
Success... inserting topic SchurFkt,CharHook from the file:
C:\Maple11/P11/SchurFkt11/Help/CharHook_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/cinner_M11.mws...
Success... inserting topic SchurFkt,cinner from the file:
C:\Maple11/P11/SchurFkt11/Help/cinner_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/cmp2part_M11.mws...
Success... inserting topic SchurFkt,cmp2part from the file:
C:\Maple11/P11/SchurFkt11/Help/cmp2part_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/cmp2prtMult_M11.mws...
Success... inserting topic SchurFkt,cmp2prtMult from the file:
C:\Maple11/P11/SchurFkt11/Help/cmp2prtMult_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/CompNM_M11.mws...
Success... inserting topic SchurFkt,CompNM from the file:
C:\Maple11/P11/SchurFkt11/Help/CompNM_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/concatM_M11.mws...
Success... inserting topic SchurFkt,concatM from the file:
C:\Maple11/P11/SchurFkt11/Help/concatM_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/conjpart_M11.mws...
Success... inserting topic SchurFkt,conjpart from the file:
C:\Maple11/P11/SchurFkt11/Help/conjpart_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couterE_M11.mws...
Success... inserting topic SchurFkt,couterE from the file:
C:\Maple11/P11/SchurFkt11/Help/couterE_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couterH_M11.mws...
Success... inserting topic SchurFkt,couterH from the file:
C:\Maple11/P11/SchurFkt11/Help/couterH_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couterM_M11.mws...
Success... inserting topic SchurFkt,couterM from the file:
C:\Maple11/P11/SchurFkt11/Help/couterM_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couterON_M11.mws...
Success... inserting topic SchurFkt,couterON from the file:
C:\Maple11/P11/SchurFkt11/Help/couterON_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couterP_M11.mws...
Success... inserting topic SchurFkt,couterP from the file:
C:\Maple11/P11/SchurFkt11/Help/couterP_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/couter_M11.mws...
Success... inserting topic SchurFkt,couter from the file:
C:\Maple11/P11/SchurFkt11/Help/couter_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/cplethP_M11.mws...
Success... inserting topic SchurFkt,cplethP from the file:
C:\Maple11/P11/SchurFkt11/Help/cplethP_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/cplethS_M11.mws...
Success... inserting topic SchurFkt,cplethS from the file:

C:\Maple11/P11/SchurFkt11/Help/cplethS_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/dimSN_M11.mws...
Success... inserting topic SchurFkt,dimSN from the file:

C:\Maple11/P11/SchurFkt11/Help/dimSN_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/Dummy_M11.mws...
Success... inserting topic SchurFkt,Dummy from the file:

C:\Maple11/P11/SchurFkt11/Help/Dummy_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/FLAT_M11.mws...
Success... inserting topic SchurFkt,FLAT from the file:

C:\Maple11/P11/SchurFkt11/Help/FLAT_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/Frob2part_M11.mws...
Success... inserting topic SchurFkt,Frob2part from the file:

C:\Maple11/P11/SchurFkt11/Help/Frob2part_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/GesselTheta_M11.mws...
Success... inserting topic SchurFkt,GesselTheta from the file:

C:\Maple11/P11/SchurFkt11/Help/GesselTheta_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/getSfktSeries_M11.mws...
Success... inserting topic SchurFkt,getSfktSeries from the file:

C:\Maple11/P11/SchurFkt11/Help/getSfktSeries_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/grAlexComp_M11.mws...
Success... inserting topic SchurFkt,grAlexComp from the file:

C:\Maple11/P11/SchurFkt11/Help/grAlexComp_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/h_to_s_M11.mws...
Success... inserting topic SchurFkt,h_to_s from the file:

C:\Maple11/P11/SchurFkt11/Help/h_to_s_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/innerP_M11.mws...
Success... inserting topic SchurFkt,innerP from the file:

C:\Maple11/P11/SchurFkt11/Help/innerP_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/inner_M11.mws...
Success... inserting topic SchurFkt,inner from the file:

C:\Maple11/P11/SchurFkt11/Help/inner_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/isLattice_M11.mws...
Success... inserting topic SchurFkt,isLattice from the file:

C:\Maple11/P11/SchurFkt11/Help/isLattice_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/KostkaPC_M11.mws...
Success... inserting topic SchurFkt,KostkaPC from the file:

C:\Maple11/P11/SchurFkt11/Help/KostkaPC_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/KostkaTable_M11.mws...
Success... inserting topic SchurFkt,KostkaTable from the file:

C:\Maple11/P11/SchurFkt11/Help/KostkaTable_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/LaplaceM_M11.mws...
Success... inserting topic SchurFkt,LaplaceM from the file:

C:\Maple11/P11/SchurFkt11/Help/LaplaceM_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/LaplaceM_mon_M11.mws...
Success... inserting topic SchurFkt,LaplaceM_mon from the file:

C:\Maple11/P11/SchurFkt11/Help/LaplaceM_mon_M11.mws

Trying to read file C:\Maple11/P11/SchurFkt11/Help/LaplaceTable_M11.mws...
Success... inserting topic SchurFkt,LaplaceTable from the file:

C:\Maple11/P11/SchurFkt11/Help/LaplaceTable_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\MLIN_M11.mws...
Success... inserting topic SchurFkt,MLIN from the file:

C:\Maple11\P11\SchurFkt11\Help\MLIN_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\mset2part_M11.mws...
Success... inserting topic SchurFkt,mset2part from the file:

C:\Maple11\P11\SchurFkt11\Help\mset2part_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\MurNak2_M11.mws...
Success... inserting topic SchurFkt,MurNak2 from the file:

C:\Maple11\P11\SchurFkt11\Help\MurNak2_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\MurNak_M11.mws...
Success... inserting topic SchurFkt,MurNak from the file:

C:\Maple11\P11\SchurFkt11\Help\MurNak_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\m_to_p_M11.mws...
Success... inserting topic SchurFkt,m_to_p from the file:

C:\Maple11\P11\SchurFkt11\Help\m_to_p_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerE_M11.mws...
Success... inserting topic SchurFkt,outerE from the file:

C:\Maple11\P11\SchurFkt11\Help\outerE_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerH_M11.mws...
Success... inserting topic SchurFkt,outerH from the file:

C:\Maple11\P11\SchurFkt11\Help\outerH_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerM_M11.mws...
Success... inserting topic SchurFkt,outerM from the file:

C:\Maple11\P11\SchurFkt11\Help\outerM_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerON_M11.mws...
Success... inserting topic SchurFkt,outerON from the file:

C:\Maple11\P11\SchurFkt11\Help\outerON_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerP_M11.mws...
Success... inserting topic SchurFkt,outerP from the file:

C:\Maple11\P11\SchurFkt11\Help\outerP_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outerS_M11.mws...
Success... inserting topic SchurFkt,outerS from the file:

C:\Maple11\P11\SchurFkt11\Help\outerS_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\outer_M11.mws...
Success... inserting topic SchurFkt,outer from the file:

C:\Maple11\P11\SchurFkt11\Help\outer_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\Overview_M11.mws...
Success... inserting topic SchurFkt,Overview from the file:

C:\Maple11\P11\SchurFkt11\Help\Overview_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\part2Frob_M11.mws...
Success... inserting topic SchurFkt,part2Frob from the file:

C:\Maple11\P11\SchurFkt11\Help\part2Frob_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\part2mset_M11.mws...
Success... inserting topic SchurFkt,part2mset from the file:

C:\Maple11\P11\SchurFkt11\Help\part2mset_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\PartNM_M11.mws...
Success... inserting topic SchurFkt,PartNM from the file:

C:\Maple11\P11\SchurFkt11\Help\PartNM_M11.mws

Trying to read file C:\Maple11\P11\SchurFkt11\Help\plethP_M11.mws...

Success... inserting topic SchurFkt,plethP from the file:
C:\Maple11/P11/SchurFkt11/Help/plethP_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/plethSnm_M11.mws...
Success... inserting topic SchurFkt,plethSnm from the file:
C:\Maple11/P11/SchurFkt11/Help/plethSnm_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/plethS_M11.mws...
Success... inserting topic SchurFkt,plethS from the file:
C:\Maple11/P11/SchurFkt11/Help/plethS_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/p_to_m_M11.mws...
Success... inserting topic SchurFkt,p_to_m from the file:
C:\Maple11/P11/SchurFkt11/Help/p_to_m_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/p_to_s_M11.mws...
Success... inserting topic SchurFkt,p_to_s from the file:
C:\Maple11/P11/SchurFkt11/Help/p_to_s_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/ScalarP_M11.mws...
Success... inserting topic SchurFkt,ScalarP from the file:
C:\Maple11/P11/SchurFkt11/Help/ScalarP_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/Scalar_M11.mws...
Success... inserting topic SchurFkt,Scalar from the file:
C:\Maple11/P11/SchurFkt11/Help/Scalar_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/sfktpolynom_M11.mws...
Success... inserting topic SchurFkt,type,sfktpolynom from the file:
C:\Maple11/P11/SchurFkt11/Help/sfktpolynom_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/skew_M11.mws...
Success... inserting topic SchurFkt,skew from the file:
C:\Maple11/P11/SchurFkt11/Help/skew_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/sq_coeff_M11.mws...
Success... inserting topic SchurFkt,sq_coeff from the file:
C:\Maple11/P11/SchurFkt11/Help/sq_coeff_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/s_to_h_M11.mws...
Success... inserting topic SchurFkt,s_to_h from the file:
C:\Maple11/P11/SchurFkt11/Help/s_to_h_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/s_to_p_M11.mws...
Success... inserting topic SchurFkt,s_to_p from the file:
C:\Maple11/P11/SchurFkt11/Help/s_to_p_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/s_to_x_M11.mws...
Success... inserting topic SchurFkt,s_to_x from the file:
C:\Maple11/P11/SchurFkt11/Help/s_to_x_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/truncWT_M11.mws...
Success... inserting topic SchurFkt,truncWT from the file:
C:\Maple11/P11/SchurFkt11/Help/truncWT_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/x_to_s_M11.mws...
Success... inserting topic SchurFkt,x_to_s from the file:
C:\Maple11/P11/SchurFkt11/Help/x_to_s_M11.mws
Trying to read file C:\Maple11/P11/SchurFkt11/Help/zee_M11.mws...
Success... inserting topic SchurFkt,zee from the file:
C:\Maple11/P11/SchurFkt11/Help/zee_M11.mws

Finished inserting 66 file topics into the HDB and Browser

```
[ *****
```

```
[ > #?SchurFkt
```

```
[ >
```

```
[ >
```

Inserting help pages for SINGULARPLURALink:

```
> HDB_LIB_PATH:=convert(libname[1],name);
HELP_FILE_PATH:=`C:\Maple11/P11/SINGULARPLURALink11/Help/`;
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`SINGULARPLURALink`;
Parent :=`SINGULARPLURALink,Examples`;
GrandParent :=`Algebra`;
MapleVersion:="M11";
#####
##list of types defined in the module
#####
typesLIST:=[];
#####
##list of types converts defined in the module
#####
convertsLIST:=[];
```

```
HDB_LIB_PATH := C:\Maple11\Cliffordlib
HELP_FILE_PATH := C:\Maple11/P11/SINGULARPLURALink11/Help/
BROWSER_PATH := Mathematics/Algebra/
ModuleName := SINGULARPLURALink
Parent := SINGULARPLURALink,Examples
GrandParent := Algebra
MapleVersion := "M11"
typesLIST := [ ]
convertsLIST := [ ]
```

Step 1: Generating an automatic list from help page files:

```
> Lauto:=makeLIST(ModuleName,Parent,GrandParent,HELP_FILE_PATH,Maple
Version);
Lauto := [[SINGULARPLURALink,Examples,Algebra,
["SINGULARPLURALink,Examples", "Examples"]]]
```

```
[ >
```

Step 2: Modifying, if needed, certain entries in Lauto list:

```
> #modsLIST:=[]
#[`Octonion,omul`,["Octonion,omul","omul","&o","octonion","Octonio
```

```

n"]]
#]:
> #for mem in modsLIST do
#   Lauto:=modifyLIST(Lauto,op(mem))
#end do:
Lauto;
[[SINGULARPLURALink,Examples,Algebra,
["SINGULARPLURALink,Examples","Examples"]]
>

```

Step 3: Inserting all help pages into HDB and the browser using the last modified list:

```

> insert_helppages(Lauto,MapleVersion);
Trying to read file C:\Maple11/P11/SINGULARPLURALink11/Help/Examples_M11.mws...
Success... inserting topic SINGULARPLURALink,Examples from the file:
      C:\Maple11/P11/SINGULARPLURALink11/Help/Examples_M11.mws
*****
Finished inserting 1 file topics into the HDB and Browser
*****

```

```

> #?SINGULARPLURALink
>

```

Inserting help pages for SP:

```

> HDB_LIB_PATH:=convert(libname[1],name);
HELP_FILE_PATH:=`C:\Maple11/P11/SP11/Help/`;
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`SP`;
Parent :=`SP,SPversion`;
GrandParent :=`Algebra`;
MapleVersion:="M11";
#####
##list of types defined in the module
#####
typesLIST:=[];
#####
##list of types converts defined in the module
#####
convertsLIST:=[];

```

```

      HDB_LIB_PATH := C:\Maple11/Cliffordlib
      HELP_FILE_PATH := C:\Maple11/P11/SP11/Help/
      BROWSER_PATH := Mathematics/Algebra/

```

Remember table of SymmetricGroup has been read and assigned
Remember table of AlternatingGroup has been read and assigned
Remember table of Reynolds has been read and assigned
Remember table of FiniteGroups has been read and assigned

Remember table of generateGinvariants has been read and assigned

```
ModuleName := SP
Parent := SP,SPversion
GrandParent := Algebra
MapleVersion := "M11"
typesLIST := [ ]
convertsLIST := [ ]
```

Step 1: Generating an automatic list from help page files:

```
> Lauto:=makeLIST (ModuleName, Parent, GrandParent, HELP_FILE_PATH, Maple
Version) ;
```

```
Lauto := [[ SP,AlternatingGroup, SP,SPversion, ["SP,AlternatingGroup", "AlternatingGroup"]],
[ SP,Dummy, SP,SPversion, ["SP,Dummy", "Dummy"]],
[ SP,FiniteGroups, SP,SPversion, ["SP,FiniteGroups", "FiniteGroups"]],
[ SP,generateGinvariants, SP,SPversion, ["SP,generateGinvariants", "generateGinvariants"]],
[ SP,gpolynom, SP,SPversion, ["SP,gpolynom", "gpolynom"]],
[ SP,hpolynom, SP,SPversion, ["SP,hpolynom", "hpolynom"]],
[ SP,isContained, SP,SPversion, ["SP,isContained", "isContained"]],
[ SP,isGinvariant, SP,SPversion, ["SP,isGinvariant", "isGinvariant"]],
[ SP,isSymmetric, SP,SPversion, ["SP,isSymmetric", "isSymmetric"]],
[ SP,MatrixAction, SP,SPversion, ["SP,MatrixAction", "MatrixAction"]],
[ SP,powersum, SP,SPversion, ["SP,powersum", "powersum"]],
[ SP,reduceGinvariants, SP,SPversion, ["SP,reduceGinvariants", "reduceGinvariants"]],
[ SP,Reynolds, SP,SPversion, ["SP,Reynolds", "Reynolds"]],
[ SP,Sigma, SP,SPversion, ["SP,Sigma", "Sigma"]],
[ SP,sigma_to_powersum, SP,SPversion, ["SP,sigma_to_powersum", "sigma_to_powersum"]],
[ SP,SPversion, Algebra, ["SP,SPversion", "SPversion"]],
[ SP,SymmetricGroup, SP,SPversion, ["SP,SymmetricGroup", "SymmetricGroup"]],
[ SP,SyzygyIdeal, SP,SPversion, ["SP,SyzygyIdeal", "SyzygyIdeal"]]]
```

>

Step 2: Modifying, if needed, certain entries in Lauto list:

```
> #modsLIST:= [
# [ `Octonion,omul` , ["Octonion,omul", "omul", "&o", "octonion", "Octonio
n"] ]
# ] :
> #for mem in modsLIST do
# Lauto:=modifyLIST (Lauto, op (mem) )
#end do :
```

Lauto;

```
[ [SP,AlternatingGroup, SP,SPversion, [ "SP,AlternatingGroup", "AlternatingGroup" ] ],  
  [ SP,Dummy, SP,SPversion, [ "SP,Dummy", "Dummy" ] ],  
  [ SP,FiniteGroups, SP,SPversion, [ "SP,FiniteGroups", "FiniteGroups" ] ],  
  [ SP,generateGinvariants, SP,SPversion, [ "SP,generateGinvariants", "generateGinvariants" ] ],  
  [ SP,gpolynom, SP,SPversion, [ "SP,gpolynom", "gpolynom" ] ],  
  [ SP,hpolynom, SP,SPversion, [ "SP,hpolynom", "hpolynom" ] ],  
  [ SP,isContained, SP,SPversion, [ "SP,isContained", "isContained" ] ],  
  [ SP,isGinvariant, SP,SPversion, [ "SP,isGinvariant", "isGinvariant" ] ],  
  [ SP,isSymmetric, SP,SPversion, [ "SP,isSymmetric", "isSymmetric" ] ],  
  [ SP,MatrixAction, SP,SPversion, [ "SP,MatrixAction", "MatrixAction" ] ],  
  [ SP,powersum, SP,SPversion, [ "SP,powersum", "powersum" ] ],  
  [ SP,reduceGinvariants, SP,SPversion, [ "SP,reduceGinvariants", "reduceGinvariants" ] ],  
  [ SP,Reynolds, SP,SPversion, [ "SP,Reynolds", "Reynolds" ] ],  
  [ SP,Sigma, SP,SPversion, [ "SP,Sigma", "Sigma" ] ],  
  [ SP,sigma_to_powersum, SP,SPversion, [ "SP,sigma_to_powersum", "sigma_to_powersum" ] ],  
  [ SP,SPversion, Algebra, [ "SP,SPversion", "SPversion" ] ],  
  [ SP,SymmetricGroup, SP,SPversion, [ "SP,SymmetricGroup", "SymmetricGroup" ] ],  
  [ SP,SyzygyIdeal, SP,SPversion, [ "SP,SyzygyIdeal", "SyzygyIdeal" ] ] ]
```

>

Step 3: Inserting all help pages into HDB and the browser using the last modified list:

> **insert_helppages (Lauto, MapleVersion) ;**

```
Trying to read file C:\Maple11/P11/SP11/Help/AlternatingGroup_M11.mws...  
Success... inserting topic SP,AlternatingGroup from the file:
```

C:\Maple11/P11/SP11/Help/AlternatingGroup_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/Dummy_M11.mws...  
Success... inserting topic SP,Dummy from the file:
```

C:\Maple11/P11/SP11/Help/Dummy_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/FiniteGroups_M11.mws...  
Success... inserting topic SP,FiniteGroups from the file:
```

C:\Maple11/P11/SP11/Help/FiniteGroups_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/generateGinvariants_M11.mws...  
Success... inserting topic SP,generateGinvariants from the file:
```

C:\Maple11/P11/SP11/Help/generateGinvariants_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/gpolynom_M11.mws...  
Success... inserting topic SP,gpolynom from the file:
```

C:\Maple11/P11/SP11/Help/gpolynom_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/hpolynom_M11.mws...  
Success... inserting topic SP,hpolynom from the file:
```

C:\Maple11/P11/SP11/Help/hpolynom_M11.mws

```
Trying to read file C:\Maple11/P11/SP11/Help/isContained_M11.mws...  
Success... inserting topic SP,isContained from the file:
```

```

C:\Maple11/P11/SP11/Help/isContained_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/isGinvariant_M11.mws...
Success... inserting topic SP,isGinvariant from the file:
C:\Maple11/P11/SP11/Help/isGinvariant_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/isSymmetric_M11.mws...
Success... inserting topic SP,isSymmetric from the file:
C:\Maple11/P11/SP11/Help/isSymmetric_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/MatrixAction_M11.mws...
Success... inserting topic SP,MatrixAction from the file:
C:\Maple11/P11/SP11/Help/MatrixAction_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/powersum_M11.mws...
Success... inserting topic SP,powersum from the file:
C:\Maple11/P11/SP11/Help/powersum_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/reduceGinvariants_M11.mws...
Success... inserting topic SP,reduceGinvariants from the file:
C:\Maple11/P11/SP11/Help/reduceGinvariants_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/Reynolds_M11.mws...
Success... inserting topic SP,Reynolds from the file:
C:\Maple11/P11/SP11/Help/Reynolds_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/Sigma_M11.mws...
Success... inserting topic SP,Sigma from the file:
C:\Maple11/P11/SP11/Help/Sigma_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/sigma_to_powersum_M11.mws...
Success... inserting topic SP,sigma_to_powersum from the file:
C:\Maple11/P11/SP11/Help/sigma_to_powersum_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/SPversion_M11.mws...
Success... inserting topic SP,SPversion from the file:
C:\Maple11/P11/SP11/Help/SPversion_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/SymmetricGroup_M11.mws...
Success... inserting topic SP,SymmetricGroup from the file:
C:\Maple11/P11/SP11/Help/SymmetricGroup_M11.mws
Trying to read file C:\Maple11/P11/SP11/Help/SyzygyIdeal_M11.mws...
Success... inserting topic SP,SyzygyIdeal from the file:
C:\Maple11/P11/SP11/Help/SyzygyIdeal_M11.mws
*****
Finished inserting 18 file topics into the HDB and Browser
*****

```

```
[ > #?SP
```

```
[ >
```

```
[ >
```

Inserting help pages for code_support:

```
[ > HDB_LIB_PATH:=convert(libname[1],name);
HELP_FILE_PATH:=`C:\Maple11/P11/Code_support11/Help/`;
BROWSER_PATH:=`Mathematics/Algebra/`;
ModuleName :=`code_support`;
Parent :=`code_support,code_support`;
```

```

GrandParent := `Clifford,intro`;
MapleVersion:="M11";
typesLIST   :=[];
convertsLIST:=[];

```

```

HDB_LIB_PATH := C:\Maple11/Cliffordlib
HELP_FILE_PATH := C:\Maple11/P11/Code_support11/Help/
BROWSER_PATH := Mathematics/Algebra/
ModuleName := code_support
Parent := code_support,code_support
GrandParent := Clifford,intro
MapleVersion := "M11"
typesLIST := [ ]
convertsLIST := [ ]

```

Step 1: Generating an automatic list from help page files:

```

> Lauto:=makeLIST (ModuleName ,Parent ,GrandParent ,HELP_FILE_PATH ,Maple
Version) ;

```

```

Lauto := [
[ code_support,code_support, Clifford,intro, ["code_support,code_support", "code_support"]],
[ code_support,examples, code_support,code_support, ["code_support,examples", "examples"]],
[ code_support,INSERT_HELPPAGES, code_support,code_support,
["code_support,INSERT_HELPPAGES", "INSERT_HELPPAGES"]]

```

>

Step 2: Modifying, if needed, certain entries in Lauto list:

```

> #modsLIST:= [
#[ `Octonion,omul` , ["Octonion,omul", "omul", "&o", "octonion", "Octonio
n"]]
#]:
> #for mem in modsLIST do
# Lauto:=modifyLIST (Lauto ,op (mem) )
#end do:
Lauto;

```

```

[[ code_support,code_support, Clifford,intro, ["code_support,code_support", "code_support"]],
[ code_support,examples, code_support,code_support, ["code_support,examples", "examples"]],
[ code_support,INSERT_HELPPAGES, code_support,code_support,
["code_support,INSERT_HELPPAGES", "INSERT_HELPPAGES"]]

```

>

[**Step 3: Inserting all help pages into HDB and the browser using the last modified list:**

```
> insert_helppages (Lauto, MapleVersion) ;
Trying to read file C:\Maple11/P11/Code_support11/Help/code_support_M11.mws...
Success... inserting topic code_support,code_support from the file:
      C:\Maple11/P11/Code_support11/Help/code_support_M11.mws
Trying to read file C:\Maple11/P11/Code_support11/Help/examples_M11.mws...
Success... inserting topic code_support,examples from the file:
      C:\Maple11/P11/Code_support11/Help/examples_M11.mws
Trying to read file C:\Maple11/P11/Code_support11/Help/INSERT_HELPPAGES_M11.mws...
Success... inserting topic code_support,INSERT_HELPPAGES from the file:
      C:\Maple11/P11/Code_support11/Help/INSERT_HELPPAGES_M11.mws
*****
Finished inserting 3 file topics into the HDB and Browser
*****
[ > ?code_support
[ >
[ >
[ >
[ >
[ >
[ > #####
[ >
```

See Also: [code_support, examples](#), [code_support](#), [code_support](#)

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Last modified: June 19, 2008, RA/BF

"code_support" for CLIFFORD, Bigebra, Octonion, GTP, Cliplus, Octonion in Maple 11

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```
> restart;  
with(code_support);
```

*Module code_cupport ver. 1.03 for CLIFFORD et al. for Maple 11
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Last revised: March 10, 2007*

*[NamesInLibrary, change_helpfiles, change_name, copy_file, get_TEXT, get_dir,
insert_helppages, makeLIST, modifyLIST, replace_in_file, split]*

```
>
```

This help page shows various commands and their code of the supplementary package "code_support" that can be used to manipulate help pages for various packages, for example, [CLIFFORD](#).

This package enables one to:

- copy Maple worksheets from one directory to another and make certain string replacements using **change_helpfiles**,
- change worksheet names using **change_name**,
- copy files from one directory to another using **copy_file**,
- read a Maple worksheet as text using **get_TEXT**,
- read and return names of Maple worksheets located in a specified directory using **get_dir**,
- take a list of file names with help topics and insert them automatically into Maple browser and HDB database entries using **insert_helppages**,
- make an automatic list of data entries needed by **insert_helppages** using **makeLIST**,
- modify a list of data entries created by **makeLIST** using **modifyLIST**,
- replace certain strings in Maple worksheets using **replace_in_file**,

- split file names into a sequence of strings using `split`,
- convert directory names listed as symbols to strings using ``convert/symbol_dir_to_string_dir``,
- convert back directory name from a string format to a symbol format using ``convert/string_dir_to_symbol_dir``.

For examples how these commands can be used see [examples of code support](#).

Cookeville, June 19, 2008

```
> #####
#####
### It is assumed that directories can be entered either as
strings:
### (a) In Windows:   "C:\\Maple11\\Clifford\\Help_11_New\\"
### (b) In Linux:
"/home/fauser/BIG_ALL/P11/Clifford/Help_11_New/"
###
### or as symbols:
### (c) In Windows:  `D:\\Bigebra/Help_Bigebra/`
### (d) In Linux:    `/home/fauser/BIG_ALL/Help_Bigebra/`
#####
#####

> restart:
> code_support:=module()
export
split,copy_file,get_dir,change_name,replace_in_file,change_helpfil
es,get_TEXT,
    makeLIST,modifyLIST,insert_helppages,NamesInLibrary;
local setup;
option package, load=setup:
#####
```

1. Procedure **NamesInLibrary** gives names of programs stored in the library specified as the argument. It gives names as strings.

```
> NamesInLibrary:=proc(lib) local e,L;
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
    L:=march('list',lib):
```

```

    for e in L do
      if SearchText(":",e[1],1..1)=0 then print(e[1]);
    end if;
  end do;
end proc:

```

>

2. Procedure **split** takes character pattern "pat" and splits a string into a sequence of substrings remained after removing "pat" from the string. If the pattern does not match, the string is returned back.

```

> split:=proc(pat, str)
  local a_seq, a1, x, pos, len, n;
  #####
  options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
  Fauser. All rights reserved.`;
  description `Last revised: March 10, 2007`;
  #####
  a_seq:=NULL;
  a1:=str;
  len:=length(a1);
  pos:=1;
  while(SearchText(pat, a1, pos..len) <>0) do
    n:=SearchText(pat, a1, pos..len);
    x:=substring(a1, pos..n-1);
    a_seq:=a_seq, x;
    a1:=substring(a1, n+length(pat)..len);
    len:=length(a1);
  od;
  a_seq:=a_seq, a1;
end:

```

3. Procedure **copy_file** copies a single file named 'in_file' and located in the directory 'path' as another file called 'out_file' to the same directory.

The path can be specified as a symbol, e.g., as `D:\\Bigebra/Help_Bigebra/` or as a "string", e.g., "D:\\Bigebra\\Help_Bigebra\\".

```

> copy_file:=proc(path::{string, symbol}, in_file::{string, symbol}, out
_file::{string, symbol})
  local OUT, line, n_lines, Text, path1, in_file1, out_file1;
  #####
  options `Copyright (c) 2002-2008 by Rafal Ablamowicz and
  Bertfried Fauser. All rights reserved.`;
  description `Last revised: March 10, 2007`;

```

```
#####
if type(path,symbol) then
    path1:=path;
else
    path1:=convert(path,string_dir_to_symbol_dir);
end if;
#####
if type(in_file,symbol) then
    in_file1:=in_file;
else
    in_file1:=convert(in_file,name);
end if;
#####
if type(out_file,symbol) then
    out_file1:=out_file;
else
    out_file1:=convert(out_file,name);
end if;
#####
n_lines:=0;
Text:=[];
OUT:=fopen(cat(path1,out_file1),WRITE,TEXT);
while true do
    line:=readline(cat(path1,in_file1));
    if line = 0 then break end if;
    Text:=[op(Text),line];
    writeline(OUT,line);
    n_lines:=n_lines+1;
end do;
close(OUT);
printf("file %s containing %d lines has been copied as file %s in
the directory %s\n",in_file1,n_lines,out_file1,path1);
return;
end proc;
```

4. Procedure **get_dir** fetches the *.mws files from a directory given as an argument and returns file names in a list of strings. Note that the directory can be specified as a "string", for example, "C:\\Maple10\\P10\\test1\\", or as `symbol`, for example, `C:\\Maple10/P10/test1`.

```
> get_dir:=proc(dir::{string,symbol})
    local wc_line,out_list,dirl;
    #####
    options `Copyright (c) 2002-2008 by Rafal Ablamowicz and
```

```

Bertfried Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
if type(dir,symbol) then
    dir1:=convert(dir,symbol_dir_to_string_dir):
else
    dir1:=dir:
end if;
#####
out_list:=ssystem(cat("dir ",dir1));
if out_list[1] <> 0 then error "Could not read the directory" end
if:
#####
wc_line:=proc(line::string)
    local c,nw,out,List,item:
    nw := 0;
    out := true;
    List:=[]:
    item:="":
    for c in line do
        if c = " " or c = "\t" or c = "\n" then
            out := true;
            if SearchText(`.mws`,item)<>0 then
                List:=[op(List),item];
            end if:
            item:="";
        elif out then
            out := false;
            nw:=nw+1;
            item:=eval(cat(item,c));
        else
            item:=eval(cat(item,c));
        end if:
    end do:
    if length(item) <> 0 and SearchText(`.mws`,item)<> 0 then
        List:=[op(List),item];
    end if:
    return List
end proc:
#####
return wc_line(out_list[2])
end proc:

```

5. Procedure **change_name** changes a name of a file "filename" specified as a string by replacing a substring "substout" with a new substring "substrin". It returns the name of the new file as a string. If the string "substout" is not found in the "filename" then it is appended to the name of the file before ".mws" extension. Note that "substout" could be an empty string "".

```
> change_name:=proc(filename::string,substout::string,substrin::string)
    local N,fileext,filenamenew,n,nout,nb;
    #####
    options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
    Fauser. All rights reserved.`;
    description `Last revised: March 10, 2007`;
    #####
    N:=length(filename);          ##length of the whole string
    nout:=length(substout);       ##length of the string to be
    removed
    n:=SearchText(substout,filename); ##location of the string to
    be removed
    #return n,nout,N;
    if n+nout-1<N then
        if n=0 then
            fileext:=substring(filename,-4..-1);

            filenamenew:=cat(substring(filename,1..(N-4)),substrin,fileext);
            else
                nb:=N-(n+nout-1);
                fileext:=substring(filename,-nb..-1);

            filenamenew:=cat(substring(filename,1..n-1),substrin,substring(fil
            ename,n+nout..N-nb),fileext);
            end if;
        elif n+nout-1=N then
            filenamenew:=cat(substring(filename,1..n-1),substrin);
        else
            error "wrong string lengths"
        end if;
    return filenamenew;
end proc;
```

6. Procedure **replace_in_file** replaces strings specified in a list 'pat_list' with strings specified in a list 'rep_list' in a single file 'in_file' and writes a new file file 'out_file'. File name needs to be of type string, e.g., "adfmatrix.mws" with extensions while lists contain strings, for example, ["November 1","2002"], etc. Procedure **replace** permits lists of replacements to be empty. In that case, it just writes

a new file but no replacements are made. Note that "in_file" and "out_file" must contain full paths to the in directory and to the out directory respectively.

```
> replace_in_file:=proc(in_file::{string,name},
                        out_file::{string,name},
                        pat_list::list(string),
                        rep_list::list(string))

local
N1,Np,OUT,i,j,pattern,replace_string,pos,str1,str2,line,n_repl,Text,repflag;
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
if nops(pat_list) <> nops(rep_list) then
    error "Need two lists of equal length, or two blank lists if
no replacements are to be made!"
end if;
#####
if member("",pat_list) then
    error "first list cannot contain an empty string"
end if;
#####
if evalb(nops(pat_list)>0 and pat_list<>rep_list) then
    n_repl:=[seq(0,i=1..nops(pat_list))];
    repflag:=true;
else
    n_repl:=[];
    repflag:=false;
end if;
#####
##Reading file in first
#####
Text:=[];
while true do
    line:=readline(`in_file`);
    if line = 0 then break end if;
    Text:=[op(Text),line];
end do;
#####
##Make replacements if needed:
#####
```

```

if repflag then
  for i from 1 to nops(Text)-1 do
    for j from 1 to nops(pat_list) do
      pattern:=pat_list[j];
      replace_string:=rep_list[j];
      if not evalb(pattern=replace_string) then
        Np:=length(pattern);
        if abs(Np - length(replace_string)) > 5 then
          error "Strings %1 and %2 ought to be of the same
length or within 5 characters", pattern,replace_string
        end if;
        while true do
          N1:=length(Text[i]);
          line:=cat(Text[i],Text[i+1]);
          pos:=SearchText(pattern,line,1..length(line));
          #
          if pos = 0 then break end if;
          #
          n_repl:=subsop(j=n_repl[j]+1,n_repl);
          str1:=line[1..pos-1];
          if pos+Np <= length(line) then
            str2:=line[pos+Np..-1];
          else
            str2:="";
          end if;
          line:=cat(str1,replace_string,str2);
          Text:=subsop(i=line[1..N1],Text);
          Text:=subsop(i+1=line[N1+1..-1],Text);
        end do;
      end if;
    end do;
  end do;
  end do:
  end do:
  end do:
  #####
  ##Write new file with or without replacements:
  #####
  OUT:=fopen(out_file,WRITE,TEXT);
  for i from 1 to nops(Text) do
    writeline(OUT,Text[i]);
  end do;
  close(OUT);
  return n_repl;
end proc:

```

7. Procedure **change_helpfiles** automatically copies all Maple help pages *.mws from "dir_in" specified as string, for example, "C:\\Maple10\\P10\\test1\\", to a different directory "dir_out" also specified as a string, for example, "C:\\Maple10\\P10\\test2\\". It can replace string patterns specified as a list 'pat_list' of strings with strings listed in a list 'rep_list'. Both lists must be of equal length, or they can be empty. If the lists are empty, no replacements are made. This procedure uses optional 5th and 6th argument, each of type "string". When used, the substring specified as the 5th argument in the name of the file currently processed is replaced with string entered as the last 6th argument. This way, replacements can be made at the same time that the file names are changed.

```
> change_helpfiles:=proc(dir_in::{string,name},
                        dir_out::{string,name},
                        pat_list::list({string,name}),
                        rep_list::list({string,name}))

local
dir1,dir2,N,dir_list,fileold,filenew,changenameflag,makerepflag,fi
le:
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
dir1,dir2:=dir_in,dir_out;
#####
if nops(pat_list)<>nops(rep_list) then
    error "pattern and replacement lists must be of equal length"
end if;
#####
if nops(pat_list)>0 then makerepflag:=true else makerepflag:=false
end if;
#####
changenameflag:=false:
if nargs=6 then
    if not type(args[5],string) or not type(args[6],string) then
        error "arguments 5 and 6, when used, must be strings,
e.g., %1 and %2", "_M5", "_M6"
    end if;
changenameflag:=true:
end if;
#####
dir_list:=get_dir(dir1);
#####
for file in dir_list do
```

```

fileold:=file:
if changenameflag then
filenew:=change_name(fileold,args[5],args[6])
                else filenew:=file
end if;
N:=replace_in_file(cat(dir1,fileold),cat(dir2,filenew),pat_list,rep_list):
makerepflag:=evalb(pat_list<>rep_list):
if makerepflag and changenameflag then
    printf("processing file %s renamed as %s with replacement(s):
%a\n",fileold,filenew,N)
elif makerepflag and not changenameflag then
    printf("processing file %s without renaming but with
replacement(s): %a\n",fileold,N);
elif not makerepflag and changenameflag then
    printf("processing file %s renamed as %s without
replacements\n",fileold,filenew)
else
printf("processing file %s without renaming and without
replacements - just copying\n",fileold,filenew)
end if;
end do:
printf("*****\n");
printf("finished processing %d files\n",nops(dir_list));
printf("*****\n");
NULL
end proc:

```

8. Procedure **get_TEXT** reads a file "FILE" and puts it into a TEXT(line1,line2,...) format needed by INTERFACE_HELP.

```

> get_TEXT:=proc(FILE)
    local textobject,line;
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
    textobject := NULL;
    line := readline(FILE);
    while line <> 0 do
        if length(line) <= 10 then
            line := `||line||` ` `:

```

```

    fi;
    textobject := textobject, line:
    line := readline(FILE):
od;
textobject := TEXT(textobject):
end:

```

9. Procedure **makeLIST** makes a list of data entries needed by **insert_helppages** to insert help pages into the HDB and the browser. In particular, it automatically creates a list of aliases that later can be modified by the procedure **modifyLIST**. It takes four arguments:

modulename - name of the module as a `symbol`

parent - the name of the Parent as a `symbol`

grandparent - the name of the GrandParent as `symbol`

LDIR - it is either a list of strings with topic entries such as, for example, ["&cco","&cco_d"], or a directory where *_M8.mws files are stored

version - it is a string that gives the current version of Maple, e.g., "M10". It is expected that the file names *_M10.mws will contain the same string. If not, error message is returned and the process is stopped

```

> makeLIST:=proc (modname:: {symbol, name} ,
                parent:: {symbol, name} ,
                grandparent:: {symbol, name} ,
                LDIR:: {list(string), name, string} ,
                version:: string)
    local
modulename, mainmodulepage, i, N, L, datastring, dataentry, Toplevel, stringlist, mem;
                global typesLIST, convertsLIST;
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
if not assigned(typesLIST) then error "global variable `typesLIST`
has not been assigned a list" end if;
if not assigned(convertsLIST) then error "global variable
`convertsLIST` has not been assigned a list" end if;
if nops(typesLIST)>0 then
    if not type(typesLIST, list(string)) then
        error "global list `typesLIST` must be either empty or it
must contain strings"
    end if

```

```

end if;
if nops(convertsLIST)>0 then
  if not type(convertsLIST,list(string)) then
    error "global list `convertsLIST` must be either empty or it
must contain strings"
  end if
end if;
#####
if type(LDIR,{name,string}) then
  stringlist:=get_dir(LDIR);
#####
  for datastring in stringlist do
    if evalb(SearchText(version,datastring)=0) then
      error "filename %1 in the directory %2 does not match
Maple version %3 - process is
aborted!!!",datastring,LDIR,version;
    end if;
  end do;
#####

stringlist:=map(change_name,stringlist,cat("_",version,".mws"),"");
;
#####
#####modify by adding "type"
if nops(typesLIST)>0 then
  for i from 1 to nops(stringlist) do
    mem:=stringlist[i];
    if member(mem,typesLIST) then

stringlist:=subsop(i=cat("type","",mem),stringlist);
      end if;
    end do;
  end if;
#####modify by adding "convert"
if nops(convertsLIST)>0 then
  for i from 1 to nops(stringlist) do
    mem:=stringlist[i];
    if member(mem,convertsLIST) then

stringlist:=subsop(i=cat("convert","",mem),stringlist);
      end if;
    end do;
  end if;
end if;

```

```

#####
else
    stringlist:=LDIR;
end if;
#####
modulename,mainmodulepage:=split(``,``,Parent);
modulename:=modname;
#####
L:=[]:
for datastring in stringlist do
    if convert(datastring,name)=mainmodulepage then
        Toplevel:=grandparent
    else
        Toplevel:=parent
    end if;
    dataentry:=convert(datastring,name);
    L:=[op(L),[cat(modulename,`,``,``,convert(dataentry,name)),
        Toplevel,

[cat(convert(modulename,string),",",datastring),datastring]]]
end do;
return L;
end proc:

```

10. Procedure **modifyLIST** can be used to replace "aliases" that are automatically generated by the procedure **makeLIST** for each help topic to be inserted into the browser. In the data entry for each help topic, the third entry is a list of aliases ["alias1","alias2",...]. This list is then replaced with the third argument of type 'list(string)' to **modifyLIST** and the procedure returns a new complete list. The original list remains unchanged.

```

> modifyLIST:=proc(Lp::listlist,topic::symbol,newaliases::list(string))
    local item,flag,i,newentryp,L,newitem;
#####
options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`;
description `Last revised: March 10, 2007`;
#####
L:=Lp:
flag:=false:
for i from 1 to nops(L) while not flag do
    flag:=evalb(op(1,L[i])=topic);
end do;
if flag=false then

```

```

    error "topic %1 has not been found in the entered list",topic;
end if;
newitem:=subsop(3=newaliases,L[i-1]);
return subsop(i-1=newitem,L);
end proc:

```

11. Procedure **insert_help_pages** takes a list of file names with help topics and inserts them into Maple browser and HDB Database entries.

- This procedure puts the below listed help pages into a maple.hdb help-page-database. These are the official help pages for the CLIFFORD, Bigebra, Cliplus, GTP, Octonion modules. It uses the following global path names:
- HDB_LIB_PATH : The path to a directory in the Maple search path (not the path of the Maple.hdb database in ../lib This pathname is here taken from libname, and has to be added to libname in any case to be able to use the help pages.
- HELP_FILE_PATH : The location of the help pages.
- BROWSER_PATH: The location in the Maple Help Page Browser at which the Package should be 'mounted'.
- Parent: The Package name or any help topic
- GrandParent: The Clifford package, (location in the Help Browser)

```

> insert_helppages:=proc(LIST)
    local Text,delim,x,lst,name,topic,browser_path,File,MODULE;
    global HDB_LIB_PATH, HELP_FILE_PATH, BROWSER_PATH;
    #####
    options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
    Fauser. All rights reserved.`;
    description `Last revised: March 10, 2007`;
    #####
    for x in LIST do
    #printf("Inserting topic %s and reading file:",x[1]);
        if (SearchText(`/`,x[1],1..length(x[1])) <> 0 ) then
            lst:=split(`/`,x[1]);
            name :=lst[-1..-1];
            topic := ``;
            delim := ``;
            while(lst <> []) do
                topic := cat(topic,cat(delim,lst[1]));
                lst:=lst[2..-1];
            end while;
        end if;
    end for;
end proc:

```

```

        delim:=`, `;
    od;
    browser_path:=cat(BROWSER_PATH,x[1]);
elif (SearchText(`,`,x[1],1..length(x[1])) <> 0 ) then
    lst:=[split(`,`,x[1])];
    name :=lst[-1..-1];
    topic:=x[1];
    browser_path:=BROWSER_PATH;
    delim:=``;
    while(lst <> []) do
        browser_path:=cat(browser_path,cat(delim,lst[1]));
        lst:=lst[2..-1];
        delim:=`/`;
    od;
else
    topic:=x[1];
    name :=x[1];
    browser_path:=cat(BROWSER_PATH,topic);
fi;
name:=op(name);
#####
if nargs=1 then
    File:=cat(HELP_FILE_PATH,cat(name, ".mws")):
elif nargs=2 then
    if not type(args[2],string) then
        error "second optional argument must be a string giving
Maple version included in file names, e.g. %1","M6"
    else
        File:=cat(HELP_FILE_PATH,cat(name, "_",args[2], ".mws")):
    end if;
end if;
#####
###HELP_FILE    = cat(HELP_FILE_PATH,cat(name, ".mws")),
#####
MODULE[x[1]]:=table( [
    NAME      = name,
    PARENT    = x[2],
    TOPIC     = topic,
    HELP_FILE = File,
    ALIASES= x[3],
    ACTIVE    = `true`,
    BROWSER_LOC = browser_path,
    LIB       = HDB_LIB_PATH

```

```

]);
##
## get TEXT
printf("Trying to read file %s...\n",File); ###for testing
Text:=get_TEXT(File);
##
## put into DB
#####
printf("Success... inserting topic %s from the file:",x[1]);
print(MODULE[x[1]][HELP_FILE]);
print(INTERFACE_HELP('insert','topic'=topic,'text'=Text,helpfile=H
DB_LIB_PATH,'aliases'=x[3],'active'=false) );
print(INTERFACE_HELP('insert','topic'=topic,'browser'=browser_path
,helpfile=HDB_LIB_PATH) );
od:
printf("*****\n");
printf("Finished inserting %d file topics into the HDB and
Browser\n",nops(LIST));
printf("*****\n");
NULL

end:

```

1. Procedure **setup** for the module **code_support** defines two conversion functions that convert directory names from "string" form to `name` (or `symbol`) form, and vice versa.

```

> setup:=proc()
  global
  `convert/string_dir_to_symbol_dir`,`convert/symbol_dir_to_string_d
  ir`;
  #####
  options `Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
  Fauser. All rights reserved.`;
  description `Last revised: March 10, 2007`;
  #####
  `convert/symbol_dir_to_string_dir`:=proc(dir::{symbol,string})
  local T,i,dir1,linuxflag;
  if type(dir,string) then return dir end if;
  linuxflag:=evalb(SearchText(`\`,dir)=0);
  if linuxflag then return convert(dir,string) end if;
  T:=remove(member,[split("/",convert(dir,string))],{""});
  dir1:=cat(T[1],"\\"):
  if nops(T) >1 then

```

```

        for i from 2 to nops(T) do dir1:=cat(dir1,T[i],"\\") end
do:
end if;
return dir1;
end proc:
#####
`convert/string_dir_to_symbol_dir`:=proc(dir::{symbol,string})
local T,i,dir1,linuxflag;
if type(dir,symbol) then return dir end if;
linuxflag:=evalb(SearchText(`\\`,dir)=0);
if linuxflag then return convert(dir,symbol) end if;
T:=remove(member,[split("\\",convert(dir,string))],{""});
dir1:=cat(T[1],"\\",T[2],"\\");
if nops(T)>2 then
    for i from 3 to nops(T) do dir1:=cat(dir1,T[i],"/") end do:
end if;
return convert(dir1,name);
end proc:
#####
print(``);
print(`Module code_cupport ver. 1.03 for CLIFFORD et al. for Maple 11`);
print(`Copyright (c) 2002-2008 by Rafal Ablamowicz and Bertfried
Fauser. All rights reserved.`);
print(`Last revised: March 10, 2007`);
print(``);
#####
end proc:

end module:
savelib(code_support);

```

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```
> restart:with(code_support);
```

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[*NamesInLibrary, change_helpfiles, change_name, copy_file, get_TEXT, get_dir, insert_helppages, makeLIST, modifyLIST, replace_in_file, split*]

> **NamesInLibrary (libname [1]) ;**

"matrealL.m"
"Clifford.m"
"_AlternatingGroup_rem_table.m"
"_SymmetricGroup_rem_table.m"
"Define.m"
"SINGULARPLURALink.m"
"GTP.m"
"_implicitbezierpolynomial.m"
"Bigebra.m"
"matquatL.m"
"_Reynolds_rem_table.m"
"Cliplus.m"
"SchurFkt.m"
"_FiniteGroups_rem_table.m"
"_generateGinvariants_rem_table.m"
"SP.m"
"matcompR.m"
"TNB.m"
"code_support.m"
"matrealR.m"
"RJgrobner.m"
"Octonion.m"
"matcompL.m"
"GfG.m"
"matquatR.m"

[>

[>

— See Also: [code_support_examples](#)

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