GAwxM version 2 - glossary of extrinsic functions

wxMaxima is a front-end for Maxima, a Computer Algebra System.

Within wxMaxima, a "software program" i.e. a sequence of maxima commands is held in an "active document". It is a type of notebook where the documentation is interspersed with the mathematical code.

Maxima, and hence wxMaxima, have many *intrinsic* functions, but the distinction is made here with the *extrinsic* functions that have been created specifically for Geometric Algebra using wxMaxima (GAwxM). Below is a list of the names of the function files with the functions contained within them.

gafns1.wxm
list2blade, basesp, bladep, bldpwr, geomp, commp
gafns2.wxm
basespinn, bladepinn, bldpwrinn, geompinn
gafns3.wxm
basespout, bladepout, bldpwrout, geompout
gafns4.wxm
grader, makemultivec, makelistgrademv, makeunitarymv
gafns5.wxm
extract, mvrev, scalarp, normod, lst2bldouter, reciproce, lst2vecouter, reciprocb
gafns6.wxm
arglst, bldexp, mvexp, pauser

gcfns1.wxm
mvgrad, mvdiv, mvcurl
gcfns2.wxm
mvderiv, Istmvcrd, makemvcrd, Istvector, makevector
gcfns3.wxm
Ist2outer, reciprocM, vectordelM

The files may be opened (carefully) under wxMaxima to examine references to their development files and the usage of the functions. The function files themselves should not be run (executed).

There is also gafns0.wxm for definition and precedence of the infix operators, and their association with some of the extrinsic functions in the earlier files above.