

# Changes in cycle 000350

/usr/local/lib/metaps/lib/000350/libemos.R32.D64.I32.a

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Note that the rs6000 libraries contain both underscored and non-underscored versions of modules.

## BUFR routines

- Introduction of 209YYY operator to represent IEEE 32/64 bit floating point numbers.
- The software now keeps in memory maximum 10 tables which speeds up parallel processing in some cases.
- ctble.F tble.F dtble.F: The unit number used to open file for bufr tables was changed to use any free unit number

## Gribex routines

- calcop.F: packcf.F unpackcf.F : Increased maximum Truncation to be handled to T2047
- grchk1.F: added class 16 dt (Data Targeting System)
- gribtemplate:
  - added - localDefinitionTemplate\_214\_098\_245
  - updated - localDefinitionTemplate\_098\_235\_015, localDefinitionTemplate\_098\_235\_004, localDefinitionTemplate\_098\_235\_016

## Interpolation software

- islproc.F hirlam.F igtog.F igtogr.F irtog.F: parameter .43 - Soil type to be procesed with nearest neighbour
- intout.F: forsing bilinear interpolation for rotation setting keyword interpolation to "bilinear"
- ww2didx.F: Bug fix calculation of indexes along each latitude in iregular lat-lon if it input field is not global, treating separetly cases for global and non globa input field
- ww2dint.F: Bug fix generating latitudes for input field
- jgetgg.F: added 640 reduced gaussian definition
- hgenll.F: NINT instead of INT for calculation of NLON NLAT

## PBIO routines

- pbio.c: Bug fix - setvbuf to be called every time new file is open
- jopnggsm.c: Bug fix - calculation of coefficient file size
- gbyte\_alpha.c: Bug fix for 64 bits packing