

Changes in cycle 000210

February 28, 2003

Workstation:

- /home/ma/emos/lib/\${ARCH}/000210/libemos.R32.D64.I32.a
- /home/ma/emos/lib/\${ARCH}/000210/libemos.R64.D64.I32.a
- /home/ma/emos/lib/sgimips_n32/000210/libemosDebug.R64.D64.I32.a

where: ARCH = sgimips_n32, rs6000, alpha, solaris, hppa, linux

Supercomputers:

- /home/ma/emos/lib/000210/libemos.R32.D64.I32.a (vpp700, vpp700e only)
- /home/ma/emos/lib/000210/libemos.R64.D64.I32.a

Note that the rs6000 libraries are a little different:

- libemos.R32.D64.I32.a
- libemos.R64.D64.I32.a -> libemos_mixed.R64.D64.I32.a
- libemos_no_underscore.R32.D64.I32.a
- libemos_underscore.R32.D64.I32.a

Here libemos_mixed.R64.D64.I32.a contains both underscored and non-underscored versions of the library modules.

BUFR routines

- Set maximum BUFR product length to 65535 on overflow (buens5.F).
- Add index for AIRS data.

Gribex routines

- Add ECMWF local definition 191 (free format data descriptor) and local definition 19 (extreme forecast index).
- Change EMOSLIB version number to 000210.
- Add generic Member State class 121.
- Return the number of values (bytes) in ksec4(21) when the 'B' option is used (GRIBEX).
- use C routines for encoding/decoding ECMWF local section 1 extensions

Interpolation software

- Rationalise the defines (INTEGER_8, POINTER_64, ..) used for compilation.
- Allow override of output area with environment variable OVERRIDE_OUTPUT_AREA.
- Treat table 129 U/V as table 128 U/V (for sensitivity fields).
- Fix configuration setup (jagggp.F).
- Handle U/V spectral as well as Ucos(theta)/Vcos(theta) spectral (jagggp.F and jwindll.F).
- Fix the inline function EQUAL for calculating number of points along all or part of a latitude.
- Ocean interpolation revised:
 - - Remove duplicate function intdn
 - - New standard code (matches latest RD version)
 - - Set up standard GRIB section 2 for interpolated horizontal sections.
 - - Fix reference to JPGRIB_ISEC1
 - - Increase sizes of XARR and YARR to size of GRIB section 1 default (JPGRIB_SEC1)
- Avoid applying precipitation processing if local definition 19 (extreme forecast index)
- Add functions juvpole.F and ixtract.c

PBIO routines

- Fix bug in PBGAFIND in search for matching GRIB headers.