

This new version of the sp v2.0.2 has been tested on WCOSS "/usrx/local/nceplibs" and on Zeus

In this version, James Taft has introduced an additional loop threading at sptranf0.f at:

```

. . . .
DO J=JB, JE
    CLAT (J)=SQRT (1.-SLATX (J) **2)
    SLAT (J)=SLATX (J)
    WLAT (J)=WLATX (J)
    CALL SPLEGEND (IROMB, MAXWV, SLAT (J), CLAT (J), EPS, EPSTOP,
&                PLN (1, J), PLNTOP (1, J) )
    ENDDO
C - - - - -
    END
. . .

```

with

```

. . .
DO J=JB, JE
    CLAT (J)=SQRT (1.-SLATX (J) **2)
    SLAT (J)=SLATX (J)
    WLAT (J)=WLATX (J)
    ENDDO
C$OMP PARALLEL DO
DO J=JB, JE
    CALL SPLEGEND (IROMB, MAXWV, SLAT (J), CLAT (J), EPS, EPSTOP,
&                PLN (1, J), PLNTOP (1, J) )
    ENDDO
C - - - - -
    END
. . .

```

This version had been tested with unit tests, post and relocation code and after several months of parallel runs is moving for implementation:

The source code is available now at EMC repository with a tag v2.0.2:

<https://svnemc.ncep.noaa.gov/projects/nceplibs/sp/tags/v2.0.2/>

The build is available in:

/usrx/local/nceplibs :

```
-rw-r--r-- 1 Eugene.Mirvis  nceplibs 428004 May 29 17:40 libsp_v2.0.2_4.a
-rw-r--r-- 1 Eugene.Mirvis  nceplibs 457332 May 29 17:40 libsp_v2.0.2_8.a
-rw-r--r-- 1 Eugene.Mirvis  nceplibs 450012 May 29 17:41 libsp_v2.0.2_d.a
```

and the working related copy at:

```
drwxr-xr-x 3 Eugene.Mirvis g01 131072 May 29 17:41 sp_v2.0.2
```

The building scripts are :

makelibsp.sh_<arch> or on WCOSS:

./makelibsp.sh_Linux

That should create 3 libraries:

```
../libsp_v2.0.2_4.a
../libsp_v2.0.2_8.a
../libsp_v2.0.2_d.a
```

Two levels up from \$SP_SRC

README.TXT is available at source directory.