

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE
NATIONAL METEOROLOGICAL CENTER

OFFICE NOTE 234

Creating the Spectral Operational Modules

Joseph Sela
Development Division

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This is an unreviewed manuscript, primarily
intended for informal exchange of information
among NMC staff members.

This Office Note documents the method of generating operational FORTRAN source and LOAD codes from the PL 1 dependent code used in the implementation of the spectral system.

The general sequence of steps is:

1. PL 1 Preprocessor

In this step the MACDCK option is used to write the pre-processed code into SYSPUNCH. SYSPUNCH should be a source library such as NWS.NMC.PROD.SPSOURCE(Member).

2. Compile and LINK-EDIT

This step invokes the X compiler on the preprocessed code and LINKEDS with NWS.NMC.W3LIB.LOAD.

The generated load module is placed on a suitable load library. (ALOAD, BLOAD, etc.)

Users are reminded that in order to change vertical or horizontal resolution, members DCLXXXXX, FFS99, FFA99, TRG99, and SETSIG must reflect the desired resolution.

The following modules are presented and identified in SYSPUNCH.

1. SMF3012G
2. SMF2412G
3. SMF2406G
4. SMP3012G
5. SMP2412B (SMP2412G is the O/I Post)
6. SMP2406G
7. SMP2406X
8. SMI3012G

9. SMI2412G

10. SMI3006G

11. SMG30G24

Modules named SMPXXXXF are designated for the O/I Post-processor and are generated by D.A.B.

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CDNAME=,DEST=WWB29PR1
//RLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=8&PLIOUT,UNIT=SYSDA,
// SPACE=(60,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMF30126)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL30K12;
% #DT='1029.';
%#FILTA = '0.92' ;
%INCLUDE GCCMINI;
%INCLUDE GMAIN;
%INCLUDE GIO;
%INCLUDE GLOCP;
%INCLUDE GFICI;
%INCLUDE GWATER;
%INCLUDE FFS99J30; %INCLUDE FFA99J30; %INCLUDE TRG99J30;
%INCLUDE SHCWHR;
%INCLUDE GLATS;
%INCLUDE NEWSIG;
%INCLUDE AMFMTM;
%INCLUDE BMCM;
%INCLUDE FILTDAMP;
%INCLUDE SICDKD;
%INCLUDE SIECKD;
%INCLUDE LRCSCS;
%INCLUDE CONVEC;
%INCLUDE FIXTET;
%INCLUDE NPMSTADE;
%INCLUDE NPSATVAP;
%INCLUDE NPSATVPI;
%INCLUDE PRMFLD;
%INCLUDE PRINTA;
%INCLUDE YSMINV;
%INCLUDE MINMAX;
%INCLUDE YSFLNB;
%INCLUDE YSFLNF;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM,LKED='LET,LIST,MAP'
//FORT.SYSIN DC DSN=8&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G30K12(SMF30126)
//

```

```

//WWSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CDNAME=,DEST=WWB29PR1
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=*&PLIOUT,UNIT=SYSDA,
// SPACE=(60,(12000,500)),DISP=(NEW,RASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMF2412G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K12;
% #DT='1545.';
%#FTLIA = '0.92' ;
%INCLUDE GCOMINI;
%INCLUDE GMAIN;
%INCLUDE GIO;
%INCLUDE GLOCP;
%INCLUDE GFIDI;
%INCLUDE GWATER;
%INCLUDE FFS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
%INCLUDE SHCWHR;
%INCLUDE GLATS;
%INCLUDE NEWSIG;
%INCLUDE AMMTM;
%INCLUDE BMCM;
%INCLUDE FILTDAMP;
%INCLUDE SICDKD;
%INCLUDE SIECKD;
%INCLUDE LRGSCL;
%INCLUDE CONVEC;
%INCLUDE FIXTET;
%INCLUDE NPMSTADE;
%INCLUDE NPSATVAP;
%INCLUDE NPSATVPI;
%INCLUDE PRMFLD;
%INCLUDE PRINTA;
%INCLUDE YSMINV;
%INCLUDE MINMAX;
%INCLUDE YSFLNB;
%INCLUDE YSFLNF;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM.LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=*&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K12(SMF2412B)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CDNAME=,DEST=WWB29PRI
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60)),CONFIG)
//SYSUT3 DD DSN=&&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMF2406G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K06;
% #DT='1545.';
%#FILTA = '0.92' ;
%INCLUDE GCOMINI;
%INCLUDE GMAIN;
%INCLUDE GIO;
%INCLUDE GLOCP;
%INCLUDE GFICI;
%INCLUDE GWATER;
%INCLUDE FFSS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
% INCLUDE SHCWHR;
% INCLUDE GLATS;
% INCLUDE SETSIG6;
% INCLUDE AMFMTM;
% INCLUDE BMCM;
% INCLUDE FILTDAMP;
% INCLUDE SICDKD;
% INCLUDE SIECKD;
% INCLUDE LRGSCL;
% INCLUDE CONVEC;
% INCLUDE FIATET;
% INCLUDE NPMSTADE;
% INCLUDE NPSATVAF;
% INCLUDE NPSATVPI;
% INCLUDE PRMFLD;
% INCLUDE PRINTA;
% INCLUDE YSMINV;
% INCLUDE MINMAX;
% INCLUDE YSFLNB;
% INCLUDE YSFLNF;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM.LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=&&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB,LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K06(SMF2406G)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),R04WODOSKI,TIME=1,REGION=256K
//*MAIN LINES=(25,C)
//*FORMAT PR,CDNAME=,DEST=WWB29PRI
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG)
//SYSUT3 DD DSN=&&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMP30126)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
//SYSIN DD *
% INCLUDE DCL30K12;
% #KPMAX='12';
% INCLUDE PGLCFO;
% INCLUDE RAG;
% INCLUDE SIGTOM; %INCLUDE GETRH;
% INCLUDE TRP2;
% INCLUDE JSTHPMCD;
% INCLUDE SLQLA1;
% INCLUDE GLATS;
% INCLUDE FFS25J35; %INCLUDE TRIQ25;
% INCLUDE YSFLNB;
% INCLUDE YSPLNF;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE UVDZ99; %INCLUDE PLNDER;
% INCLUDE FFS99J30; %INCLUDE FFA99J30; %INCLUDE TRG99J30;
% INCLUDE YSGRID;
% INCLUDE QPFINT;
% INCLUDE GGFOLR;
% INCLUDE MINMAX;
% INCLUDE SUEGRD;
% INCLUDE SHCWHR;
% INCLUDE W3FT05;
% INCLUDE OPWRCL;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM=LKED='LET,LIST,MAP:
//FORT.SYSIN DD DSN=&&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G30K12(SMP30126)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),R04WODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CDNAME=,DEST=WWB29PR1
//RLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=8&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMP2412B)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K12;
% #KPMAX='12';
% INCLUDE PGLCPO;
% INCLUDE RAG;
% INCLUDE SIGTCM; %INCLUDE GETRH;
% INCLUDE TRP2;
% INCLUDE JSTRPMCD;
% INCLUDE SLOLA1;
% INCLUDE GLATS;
% INCLUDE FFS25J35; %INCLUDE TRIG25;
% INCLUDE YSPLNB;
% INCLUDE YSPLNF;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE UVZ99; %INCLUDE PLNDR;
% INCLUDE FFS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
% INCLUDE YSGRID;
% INCLUDE QPFINT;
% INCLUDE GGFOLR;
% INCLUDE MINMAX;
% INCLUDE SUEGRD;
% INCLUDE SHC#HR;
% INCLUDE W3F105;
% INCLUDE OPWRCL;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM.LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=8&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K12(SMP2412G)
//

```



```

//WWSMEGA JOB (WD23008AC601000,WWB-D1),R04WODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,EDNAME=,DEST=WWB29PR1
//*PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=8&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMP2406G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K06;
% #KPMAX='12';
% INCLUDE PGLCPO;
% INCLUDE RAG;
% INCLUDE TRP2;
% INCLUDE JSTRPMCD;
% INCLUDE SIGTOM;
% INCLUDE GETHHEX;
% INCLUDE SLOLA1;
% INCLUDE GLATS;
% INCLUDE FFS25J35; %INCLUDE TRIG25;
% INCLUDE YSPLNB;
% INCLUDE YSPLNF;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE UVCZ99; %INCLUDE PLNDR;
% INCLUDE FFS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
% INCLUDE YSGRID;
% INCLUDE QPFINT;
% INCLUDE GGFCLR;
% INCLUDE MINMAX;
% INCLUDE SUEGRD;
% INCLUDE SHCWHR;
% INCLUDE W3FT05;
% INCLUDE OPWRCL;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM=LKED='LET,LIST,MAP'
// FORT.SYSIN DD DSN=8&PLIOUT,DISP=(OLD,DELETE)
// LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
// LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K06(SMP2406G)
//
//
//
//

```

```

//WWSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,EDNAME=,DEST=WWB29PR1
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=*&PLIOUT,UNIT=SYSDA,
// SPACE=(60,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMP2406X)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.MET2,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K06;
% #KPMAX='12';
% INCLUDE PGLCPOX;
% INCLUDE SIGTCM;
% INCLUDE GETRFX;
% INCLUDE SLOLA1;
% INCLUDE GLATS;
% INCLUDE FFS25J35; %INCLUDE TRIG25;
% INCLUDE YSPLNB;
% INCLUDE YSPLNF;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE UVEZ99; %INCLUDE PLNDR;
% INCLUDE FFS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
% INCLUDE YSGRID;
% INCLUDE QPFINT;
% INCLUDE GGFOLR;
% INCLUDE MINMAX;
% INCLUDE SUEGRD;
% INCLUDE SHCWHR;
% INCLUDE W3F105;
% INCLUDE OPWRCL;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM,LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=*&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.LOADSR(SMP2406X)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CDNAME=,DEST=WWB29PR1
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG)
//SYSUT3 DD DSN=*&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,RASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMI3012G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL30K12;
% INCLUDE GPFENODI;
% INCLUDE GHCIGGLN;
% INCLUDE JSFTOSIG;
% INCLUDE NE*SIG;
% INCLUDE YSFLNB;
% INCLUDE GLATS;
% INCLUDE LO*TMP;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE FFS99J30; %INCLUDE FFA99J30; %INCLUDE TRG99J30;
% INCLUDE UVEZ99; % INCLUDE PLNDR;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM,LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=*&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G30K12(SMI3012G)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*FORMAT PR,CONAME=,DEST=WWB29PR1
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG)
//SYSUT3 DD DSN=*&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMI2412G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL24K12;
% INCLUDE GPHENODI;
% INCLUDE GHCIGGLN;
% INCLUDE JSFTOSIG;
% INCLUDE NEWSIG;
% INCLUDE YSFLNB;
% INCLUDE GLATS;
% INCLUDE LOWTMP;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE FFSS99J24; %INCLUDE FFA99J24; %INCLUDE TRG99J24;
% INCLUDE UVC299; % INCLUDE PLNDER;
/* EXEC XFORXCL,FXPOPT=3,
// FXPTerm=TERM,
// FXPLINE=78,FXPL='XL',PARM.LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=*&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K12(SMI2412G)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),R04WODOSKI,TIME=1,REGION=256K
//*MAIN LINES=20
//*EFORMAT PR,CDNAME=,DEST=WWB29PRI
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG)
//SYSUT3 DD DSN=*&PLIOUT,UNIT=SYSDA,
// SPACE=(80,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMI3006G)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DD DSN=W.NWS.W323.YS.FFTS,DISP=SHR
// DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
//SYSIN DD *
% INCLUDE DCL30K06;
% INCLUDE GPRENODI;
% INCLUDE GHGIGGLN;
% INCLUDE JSFTOSIG;
% INCLUDE SETSIG6;
% INCLUDE YSPLNB;
% INCLUDE GLATS;
% INCLUDE LOWTMP;
% INCLUDE PRMFLD;
% INCLUDE YSMINV;
% INCLUDE FF999J30; %INCLUDE FFA99J30; %INCLUDE TRG99J30;
% INCLUDE UVCZ99; % INCLUDE PLNDR;
/*
// EXEC XFORXCL,FXPOPT=3,
// FXPTERM=TERM,
// FXPLINE=78,FXPL='XL',PARM,LKED='LET,LIST,MAP'
//FORT.SYSIN DC DSN=*&PLIOUT,DISP=(OLD,DELETE)
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K06(SMI3006G)
//

```

```

//WWYSMEGA JOB (WD23008AC601000,WWB-D1),ROZWODOSKI,TIME=1,REGION=256K
//*MAIN LINES=(25,C)
//*FORMAT PR,CDNAME=,DEST=WWB29PR1
//PLIPRE EXEC PGM=IEMAA,
// PARM='M,NS,NLD,NC,NS2,SM=(2,72,1),LC=78,FE,MACDCK,
//SYSPRINT DD DUMMY
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(60,60),,CONFIG)
//SYSUT3 DD DSN=&&PLIOUT,UNIT=SYSDA,
// SPACE=(60,(12000,500)),DISP=(NEW,PASS)
//SYSPUNCH DD LABEL=(,,OUT),DISP=SHR,
// DSN=NWS.NMC.PROD.SPSOURCE(SMG30624)
//SYSLIN DD DUMMY
//SYSLIB DD DSN=W.NWS.W323.YS.FORT,DISP=SHR
// DSN=W.NWS.W323.YS.MET1,DISP=SHR
// DSN=W.NWS.W323.YS.MET2,DISP=SHR
//SYSIN DD *
% INCLUDE DCL30K12;
DIMENSION NUM(28),LAB(8),IDATE(4),BUE(100)
COMPLEX*8 GZ(#LN),CT(25,25)
CALL W3STRT
CALL PRMFLD(NUM)
N1=NUM(1)
N2=NUM(2)
NTRY=0
10 CONTINUE
REWIND N1
REWIND N2
READ(N1,ID=N1)LAB
WAIT(N1,ID=N1,NUM=IB,COND=ICON)LAB
IF(ICON.EQ.3) STOP 45
WRITE(N2)LAB
C READ(N1,ID=N1)BUF
WAIT(N1,ID=N1,NUM=IB,COND=ICON)BUF
LEVS=(IB-24)/8
NW=IB/4
WRITE(N2)(BUF(I),I=1,NW)
C READ(N1,ID=N1)GZ
WAIT(N1,ID=N1,NUM=IB,COND=ICON)GZ
NWORD=IB/8
PRINT 100,LEVS,NWORD,ICON
100 FORMAT(1H,'LEVS=',I2,' NWORD=',I4,' ICON=',I1)
LN=#LN
JCAP1=#JCAP1
IF(NWORD.NE.LN)JCAP1=25
1 CALL TG3024(JCAP1,GZ,CT,N2)
READ(N1,ID=N1)GZ
WAIT(N1,ID=N1,NUM=IB,COND=ICON)GZ
GO TO(1,2,3),ICON
C** ERROR
2 CONTINUE
PRINT 101,N1,ICON
101 FORMAT(1H1,'ERROR IN READING FILE',I2,2X,'ICON=',I1)
NTRY=NTRY+1
IF(NTRY.LT.5)GO TO 10
3 CONTINUE
C** REACH END OF FILE
IF(ICON.EQ.3) GO TO 200
CALL W3STOP
STOP 55
200 CONTINUE
CALL W3STOP
STOP
END
SUBROUTINE TG3024(JCAP1,F,C,N2)
COMPLEX*8 F(JCAP1,JCAP1),C(25,25)
DO 1 L=1,25
DO 1 I=1,25
C(I,L)=F(I,L)
1 CONTINUE
WRITE(N2)C
RETURN
END
% INCLUDE PRMFLD;
/* EXEC XFORXCL,FXPOPT=3,
// FXPTERM=TERM,
// FXPLINE=78,FXPL='XL',PARM=LKED='LET,LIST,MAP'
//FORT.SYSIN DD DSN=&&PLIOUT,DISP=(OLD,DELETE)

```

```
//LKED.SYSLIB DD
//          DD
//          DD
//          DD DSN=NWS.NMC.W3LIB.LOAD,DISP=SHR
//LKED.SYSLMOD DD DISP=SHR,SPACE=,DSN=W.NWS.W323.YS.G24K12(SM630G24)
//
```