Network Working Group
Request for Comments: 390
NIC: 11582

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TSO SCENARIO
BATCH COMPILATION AND FOREGROUND EXECUTION

```
logon uid                                                (Use your user-id)
LOGON UID                        (TSO repeats line for reasons of its own)
ENTER PASSWORD                                      (TSO asks for password)
xyz
UID LOGON IN PROGRESS AT 09:59:18 ON AUGUST 28, 1972
LOGON PROCEEDING                              (It may take a minute or longer)
WELCOME TO TSO.  GOOD LUCK.

= CCN NEWS =

THE DEFAULT LOGON PROCEDURE NO LONGER PRE-ALLOCATES FILES -
  SYSUT1, SYSUT2, AND SYSUT3.

READY                                    (call EDIT to create source data set)
edit sample new fortg
INPUT          (for "new" data set, EDIT enters INPUT mode automatically)
00010 // exec fortgcl                                        (in INPUT mode,
00020 c  a sample fortran program                EDIT types out line numbers,
00030 c                                                  user enters lines.)
00040 1     format(' enter a')
00050 2     format(' the square root of',f10.3,' is',f10.3)
00060 3     format(f10.3)
00070 100   write(6,1)                                (Specifying "fortg" in
00080       read(5,3) a                        edit command sets logical tabs
00090       b=sqrt(a)                                 correctly for Fortran)
00100       write(6,2) a, b
00110       go to 100
00120       end
00130 /*
00140 //lked.syslmod dd disp=new,dsn=abc132.uid.load(root)
00150                                      (Null line leaves INPUT mode)
verify                       ("verify" causes changed line to be displayed)
change 140 /new/old/
00140 //LKED.SYSLMOD DD DISP=OLD,DSN=ABC123.UID.LOAD(ROOT)
list
00010 // EXEC FORTGCL
00020 C A SAMPLE FORTRAN PROGRAM
00030 C
```

```
00040 1     FORMAT(' ENTER A')
00050 2     FORMAT(' THE SQUARE ROOT OF',F10.3,' IS',F10.3)
00060 3     FORMAT(F10.3)
00070 100   WRITE(6,1)
00080       READ(5,3) A
00090       B=SQRT(A)
00100       WRITE(6,2) A, B
00110       GO TO 100
00120       END
00130 /*
00140 //LKED.SYSLMOD DD DISP=OLD,DSN=ABC132.UID.LOAD(ROOT)
END OF DATA
save                          (Make permanent copy of source file)
SAVED
end                           (Leave EDIT)
READY                         (Create new load module library data set)
allocate da(load) new space(5,5) block(7294) dir(1)
READY
free da(load)                 (Free library data set from TSO so batch
READY                         job can linkedit into it)
submit sample                 (Submit source file to batch)
ENTER JOBNAME CHARACTER-
p
JOB ABC123P SUBMITTED         (User "UID" has charge number "ABC123")
READY
status
 ABC123P  WAITING FOR READER
IEF404I ABC123P  ENDED        (Spontaneous message when job finishes)
READY
status
 ABC123P  FINISHED WAITING FOR WRITER
READY
keepout abc123p               (Save output in permanent data set)
SYSOUT DATA SET FOR JOB ABC123P ADDED TO PRINT DATA SET WITH UNLIKE ATTRIBUTES
SYSOUT DATA SET FOR JOB ABC123P ADDED TO PRINT DATA SET WITH UNLIKE ATTRIBUTES
NO CLASS OUTPUT FOR JOB ABC123P
EDIT OUTPUT.LIST  ("Keepout" leaves you in EDIT to examine output list)
find /return code/
CCN011I STEP RETURN CODE =     0
list
//ABC123P   JOB  'ABC123.UID,B=0672',
//             UID,
//             NOTIFY=UID,
//             MSGLEVEL=(1,1)
// EXEC FORTGCL                                              0000001
```

```
XXFORTGCL PROC TC=1439,TL=1439,PC=150,PL=10,RL=154K,RC=100K,LEVEL=1
XXFORT   EXEC  PGM=IEYFORT,REGION=&RC,TIME=&TC                    0000002
IEF653I SUBSTITUTION JCL - PGM=IEYFORT,REGION=100K,TIME=1439
XXSTEPLIB DD DISP=(SHR,PASS),DSN=&&FORTRAN&LEVEL                  0000003
IEF653I SUBSTITUTION JCL - DISP=(SHR,PASS),DSN=&&FORTRAN1
XXSYSLIN DD DSN=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,             0000004
XX SPACE=(3200,(8,4),RLSE),DCB=BLKSIZE=3200                       0000005
XXSYSPRINT DD SYSOUT=A,DCB=(RECFM=FBA,LRECL=120,BLKSIZE=3480),    0000006
XX SPACE=(TRK,&PC,RLSE)                                           0000007
IEF653I SUBSTITUTION JCL - SPACE=(TRK,150,RLSE)
//SYSIN DD * GENERATED STATEMENT
IEF236I ALLOC. FOR ABC123P  FORT
IEF237I 342   ALLOCATED TO STEPLIB
IEF237I 450   ALLOCATED TO SYSLIN
IEF237I 630   ALLOCATED TO SYSPRINT
IEF237I 230   ALLOCATED TO SYSIN
1  FORTRAN IV G LEVEL  20                MAIN          DATE=72241

0               C  A SAMPLE FORTRAN PROGRAM
                C
    0001        1     FORMAT(' ENTER A')
    0002        2     FORMAT(' THE SQUARE ROOT OF',F10.3,' IS',F10.3)
    0003        3     FORMAT(F10.3)
    0004        100   WRITE(6,1)
    0005              READ(5,3) A
    0006              B=SQRT(A)
    0007              WRITE(6,2) A, B
    0008              GO TO 100
    0009              END
1 FORTRAN IV G LEVEL   20               MAIN          DATE=72241
0
```

```
SUBPROGRAMS CALLED
EDIT
end                           (Leave EDIT)
READY
print output.list             (Ask to have output printed at CCN)
DATASET OUTPUT.LIST HAS BEEN ENQUEUED FOR PRINTING IN CLASS C
READY                         (Now execute load module in foreground)
allocate file(ft05f001) da(*)
READY              (Allocate Fortran input and output files to terminal)
allocate file(ft06f001) da(*)
READY
call load(root)               (Call load module)
ENTER A
3.141
THE SQUARE ROOT OF      3.141 IS    1.772
ENTER A
4096.
THE SQUARE ROOT OF   4096.000 IS   64.000
ENTER A
READY
logoff
UID LOGGED OFF TSO AT 10:40:18 ON AUGUST 28,  1972+
```