```
 Identification Division.
 Program-ID.    J7200524.
*
* This program wraps up the LE callable services necessary to
* obtain the current date and time (GMT or local) and format
* that date and/or time according to a format string.  This
* is conceptually similar to the C function strftime().
*
* Valid values for the format string can be found by looking
* up the CEEDATM callable service in the Language Environment
* Programming Reference.
*
* If errors are encountered in any of the LE callable services,
* the service will display a message.  It appears that CEEMSG
* is used for this purpose.
*
* Under systems other than CICS, Language Environment writes
* the message to the ddname of the file specified in the MSGFILE
* run-time option. Under CICS, the message is written to a
* transient data queue named CESE.
*
* Currently, this means that in batch the message is likely to
* be found in SYSOUT and in CICS it's likely to be found in
* CEEMSG.
*
*Working-Storage Section.
*01  CONSTANTS.
*    05  MYNAME              PIC X(008) VALUE 'J8675309'.
*    05  FMT-DT-TM-PGM       PIC X(008) VALUE 'J7200524'.
*
*01  LCL-TM-SW            PIC X(001).
*    88  LCL-TM                      VALUE 'Y'.
*    88  GMT-TM                      VALUE 'N'.
*
*01  DT-PIC-STRN.
*    05  DT-PIC-STRN-LEN    PIC S9(004) COMP-5 VALUE +80.
*    05  DT-PIC-STRN-VAL    PIC X(080)
*        VALUE 'Www, DD Mmm YYYY HH:MI:SS GMT'.
*
*01  FMT-DT-TM               PIC X(080) VALUE SPACES.
*
*Procedure Division.
*    SET GMT-TM TO TRUE
*    CALL J7200524-PGM USING
*        LCL-TM-SW
*        DT-PIC-STRN
```

```
*           FMT-DT-TM
*     END-CALL
*

 Environment Division.
 Data Division.
 Working-Storage Section.
 01  CONSTANTS.
     05  MYNAME                   PIC X(008) VALUE 'J7200524'.

 01  WORK-AREAS.
     05  GMT-LILIAN               PIC 9(008)  COMP-5 VALUE 0.
     05  OSET-HRS                 PIC S9(008) COMP-5 VALUE +0.
     05  OSET-MIN                 PIC S9(008) COMP-5 VALUE +0.
     05  GMT-FLOT                             COMP-2 VALUE 0.0.
     05  OSET-SEC                             COMP-2 VALUE 0.0.

 Linkage Section.
* Input -  Switch indicating whether to pass back local time
*          or GMT.  A value of 'Y' in this field indicates
*          local time should be used.  Any value other than 'Y'
*          indicates GMT should be used.
 01  LCL-TM-SW            PIC X(001).
     88  LCL-TM                            VALUE 'Y'.

* Input -  Date picture string prefixed by its length.  Valid
*          picture string formatting is documented in the
*          Language Environment Programming Reference.
 01  DT-PIC-STRN.
     05  DT-PIC-STRN-LEN     PIC S9(004) COMP-5.
     05  DT-PIC-STRN-VAL
         OCCURS 1 TO 80
         DEPENDING DT-PIC-STRN-LEN
                           PIC X(001).

* Output - GMT date/time formatted according to the content
*          of DT-PIC-STRN-VAL.
 01  FMT-DT-TM            PIC X(080).

 Procedure Division Using
     LCL-TM-SW
     DT-PIC-STRN
     FMT-DT-TM
     .

     MOVE SPACES TO FMT-DT-TM
```

```
*      Obtain GMT time.
       CALL 'CEEGMT' USING
           GMT-LILIAN
           GMT-FLOT
           OMITTED
       END-CALL

       IF LCL-TM
*          If local time requested, obtain its offset from GMT
*          and compute local time.
           CALL 'CEEGMTO' USING
               OSET-HRS
               OSET-MIN
               OSET-SEC
               OMITTED
           END-CALL
           ADD OSET-SEC TO GMT-FLOT
       END-IF

*      Format the date according to the passed picture string.
       CALL 'CEEDATM' USING
           GMT-FLOT
           DT-PIC-STRN
           FMT-DT-TM
           OMITTED
       END-CALL

       MOVE 0      TO RETURN-CODE
       GOBACK.
```