ENERCON
SERVICES, INC.

Appendix EPad-TH to Calculation PGE-009-CALC-006

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Date: September 20, 2002
Revised: March 3, 2003

Appendix EPad-TH

This Appendix presents the ANSYS output file documenting the equilibrium check for the constrained model thermal stress analysis. Contains the ANSYS Input file, followed by manual calculations for expected forces, followed by the ANSYS Output File.

ANSYS Input File:

```
/com,
/com, This routine processes load results data for the
/com,   evaluation of equilibrium.
/com
/com,   Load Case Results
/com
/com
/com ************************
/com ************************
/com
/com ****** Reactions ******
/com
/file,Pad-Th
resume
/header,on,on,on
/post1
spoint,,0,0,0
/com
/com ************************
/com *****  LOAD CASE 1 *****
lcfile,1
lcase,1
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 2 *****
lcfile,2
lcase,2
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 3 *****
lcfile,3
lcase,3
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
```

```
/com *****  LOAD CASE 4 *****
lcfile,4
lcase,4
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 5 *****
lcfile,5
lcase,5
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 6 *****
lcfile,6
lcase,6
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 7 *****
lcfile,7
lcase,7
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 8 *****
lcfile,8
lcase,8
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
```

```
fsum
/com
/com ************************
/com *****  LOAD CASE 9 *****
lcfile,9
lcase,9
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 10 *****
lcfile,10
lcase,10
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 11 *****
lcfile,11
lcase,11
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com ************************
/com
fini
/output
/exit,nosave
```

Manual Calculation for Dead Weight:

Pad weight model for load step 1 is 90% of ¼ of the pad weight at 150 pcf:

W model = 0.90 x 0.25 x 105 x 68 x 8 x 150 = 1,927,800 lbs

And the incremental weight for each subsequent load step is 19,278 lbs.

				Target		ANSYS
Thus for LS 1	W = 1,927,800		=	1,927,800	Vs	1,927,183
And for LS 2	W = 1,927,800	+ 19278	=	1,947,078	Vs	1,946,455
And for LS 3	W = 1,947,078	+ 19278	=	1,966,356	Vs	1,965,727
And for LS 4	W = 1,966,356	+ 19278	=	1,985,634	Vs	1,984,999
And for LS 5	W = 1,985,634	+ 19278	=	2,004,912	Vs	2,004,270
And for LS 6	W = 2,004,912	+ 19278	=	2,024,190	Vs	2,023,542
And for LS 7	W = 2,024,190	+ 19278	=	2,043,468	Vs	2,042,814
And for LS 8	W = 2,043,468	+ 19278	=	2,062,746	Vs	2,062,086
And for LS 9	W = 2,062,746	+ 19278	=	2,082,024	Vs	2,081,358
And for LS 10	W = 2,082,024	+ 19278	=	2,101,302	Vs	2,100,630
And for LS 11	W = 2,101,302	+ 19278	=	2,120,580	Vs	2,119,901

ANSYS Output File:

```
 ANSYS/Mechanical U


 *------------------------------------------------------------*
 |                                                            |
 |   W E L C O M E   T O   T H E   A N S Y S   P R O G R A M  |
 |                                                            |
 *------------------------------------------------------------*




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```

```
*****************************************************************

                    Completing ANSYS Load Process.


         *****  ANSYS COMMAND LINE ARGUMENTS  *****
 INITIAL JOBNAME                = PAD-TH
 BATCH MODE REQUESTED           = LIST
 MEMORY REQUESTED (MB)          = 800
 DATABASE SIZE REQUESTED (MB) = 250

*** WARNING ***                            CP=      0.210   TIME= 17:37:31
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed.  Only use the -M
 switch if you are certain that you need to do so.

PARAMETER STATUS-            (    1 PARAMETERS DEFINED)
                  (INCLUDING      1 INTERNAL PARAMETERS)

00245050           VERSION=INTEL NT        RELEASE= 6.1     UP20020321
CURRENT JOBNAME=PAD-TH  17:37:31  JUN 10, 2002 CP=      0.210

     1  /com,
     2  /com,      This routine processes load results data for the
     3  /com,    evaluation of equilibrium.
     4  /com
     5  /com,    Load Case Results
     6  /com
     7  /com
     8  /com ************************
     9  /com ************************
    10  /com
    11  /com ****** Reactions ******
    12  /com
    13  /file,Pad-Th
    14  resume
    15  /header,on,on,on
    16  /post1
    17  spoint,,0,0,0
    18  /com
    19  /com ************************
    20  /com *****  LOAD CASE 1 *****
    21  lcfile,1
    22  lcase,1
    23  eall
    24  cmsel,s,bot
    25  cmsel,a,symxy
    26  cmsel,a,symyz
    27  cmsel,a,xedge
    28  cmsel,a,zedge
    29  fsum
    30  /com
    31  /com ************************
    32  /com *****  LOAD CASE 2 *****
    33  lcfile,2
    34  lcase,2
```

```
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 3 *****
lcfile,3
lcase,3
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 4 *****
lcfile,4
lcase,4
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 5 *****
lcfile,5
lcase,5
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
/com *****  LOAD CASE 6 *****
lcfile,6
lcase,6
eall
cmsel,s,bot
cmsel,a,symxy
cmsel,a,symyz
cmsel,a,xedge
cmsel,a,zedge
fsum
/com
/com ************************
```

```
 92  /com *****  LOAD CASE 7 *****
 93  lcfile,7
 94  lcase,7
 95  eall
 96  cmsel,s,bot
 97  cmsel,a,symxy
 98  cmsel,a,symyz
 99  cmsel,a,xedge
100  cmsel,a,zedge
101  fsum
102  /com
103  /com ************************
104  /com *****  LOAD CASE 8 *****
105  lcfile,8
106  lcase,8
107  eall
108  cmsel,s,bot
109  cmsel,a,symxy
110  cmsel,a,symyz
111  cmsel,a,xedge
112  cmsel,a,zedge
113  fsum
114  /com
115  /com ************************
116  /com *****  LOAD CASE 9 *****
117  lcfile,9
118  lcase,9
119  eall
120  cmsel,s,bot
121  cmsel,a,symxy
122  cmsel,a,symyz
123  cmsel,a,xedge
124  cmsel,a,zedge
125  fsum
126  /com
127  /com ************************
128  /com *****  LOAD CASE 10 *****
129  lcfile,10
130  lcase,10
131  eall
132  cmsel,s,bot
133  cmsel,a,symxy
134  cmsel,a,symyz
135  cmsel,a,xedge
136  cmsel,a,zedge
137  fsum
138  /com
139  /com ************************
140  /com *****  LOAD CASE 11 *****
141  lcfile,11
142  lcase,11
143  eall
144  cmsel,s,bot
145  cmsel,a,symxy
146  cmsel,a,symyz
147  cmsel,a,xedge
148  cmsel,a,zedge
```

```
  149  fsum
  150  /com
  151  /com *************************
  152  /com *************************
  153  /com
  154  fini
  155  /output
  156  /exit,nosave
  157
  158
  159
  160

 RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys
Inc\ANSYS61\docu\start61.ans

 /INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans  LINE=       0

  This routine processes load results data for the
    evaluation of equilibrium.

    Load Case Results


 ************************
 ************************

 ****** Reactions ******


 CURRENT JOBNAME REDEFINED AS Pad-Th

 RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

 *** ANSYS GLOBAL STATUS ***

 TITLE = DELTA T 6.125 TO 7.875 DAYS
 ANALYSIS TYPE =  STATIC (STEADY-STATE)
 NUMBER OF ELEMENT TYPES =      5
    8812 ELEMENTS CURRENTLY SELECTED.  MAX ELEMENT NUMBER =     9341
   10212 NODES CURRENTLY SELECTED.     MAX NODE NUMBER =       10212
     166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER =     166
     339 LINES CURRENTLY SELECTED.     MAX LINE NUMBER =        339
       2 AREAS CURRENTLY SELECTED.     MAX AREA NUMBER =        224
      48 VOLUMES CURRENTLY SELECTED.   MAX VOL. NUMBER =         48
     22 COMPONENTS CURRENTLY DEFINED
 MAXIMUM LINEAR PROPERTY NUMBER        =      12
 MAXIMUM REAL CONSTANT SET NUMBER      =       1
 ACTIVE COORDINATE SYSTEM              =       0  (CARTESIAN)
 MAXIMUM COUPLED D.O.F. SET NUMBER     =     367
 NUMBER OF SPECIFIED CONSTRAINTS       =    4657
 CURRENT LOAD CASE =      0 OF      0
 LOAD SET    =      11
 SUBSTEP     =       1
 TIME/FREQ   =    11.000

 INITIAL JOBNAME = PAD-TH
```

```
 CURRENT JOBNAME = Pad-Th


 PRINT HEADER
 PRINT SUBTITLE(S)
 PRINT LOAD STEP ID
 DO NOT PRINT NOTE LINE(S)
 PRINT COLUMN HEADER LABELS
 DO NOT PRINT REPORT TOTALS
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:37:34  JUN 10, 2002 CP=      0.761

 DELTA T 6.125 TO 7.875 DAYS


          ***** ANSYS RESULTS INTERPRETATION (POST1) *****

 *** WARNING ***                          CP=      0.761   TIME= 17:37:34
 The current solution may have been produced using different model or
 boundary condition data than is currently stored.  POST1 results may
  be erroneous unless you perform a new solution using the stored data.

 *** NOTE ***                             CP=      0.761   TIME= 17:37:34
 Reading results into the database (SET command) will update the current
 displacement and force boundary conditions in the database with the
 values from the results file for that load set.  Note that any
 subsequent solutions will use these values unless action is taken to
  either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

 *** NOTE ***                             CP=      0.761   TIME= 17:37:34
 The force summations will be in global cartesian when the summation
  point is at the origin.

 NODE FOR MOMENT SUMMATION=       0
 MOMENT SUMMATION LOCATION=   0.00000       0.00000       0.00000

 ************************
 *****  LOAD CASE 1 *****

 LOAD CASE   1 IS LOAD STEP     1  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.101
 PAD RESPONSE AT END OF 0.25 DAYS


 COPY LOAD CASE   1 FROM FILE TO DATABASE

     8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

 SELECT      COMPONENT BOT

 ALSO SELECT COMPONENT SYMXY

 ALSO SELECT COMPONENT SYMYZ
```

```
ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.1395398E-07
 FY   =  -1927183.
 FZ   =  0.9403266E-08
 MX   =  0.6070627E+09
 MY   =  0.3801775E-05
 MZ   = -0.3931454E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 2 *****

LOAD CASE   2 IS LOAD STEP     2  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.102
PAD RESPONSE AT END OF 0.50 DAYS


COPY LOAD CASE   2 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.1428592E-06
 FY   =  -1946455.
 FZ   =  0.5142886E-07
 MX   =  0.6131333E+09
 MY   =  0.3498181E-04
 MZ   = -0.3970768E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 3 *****

LOAD CASE   3 IS LOAD STEP     3  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.103
PAD RESPONSE AT END OF 0.625 DAYS


COPY LOAD CASE   3 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.
```

```
SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   0.3840391E-03
 FY   =   -1965727.
 FZ   =   0.2427879E-03
 MX   =   0.6192039E+09
 MY   =   0.7231490E-01
 MZ   = -0.4010083E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 4 *****

LOAD CASE   4 IS LOAD STEP     4  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS


COPY LOAD CASE   4 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   0.3834437E-03
 FY   =   -1984999.
 FZ   =   0.2426280E-03
 MX   =   0.6252746E+09
 MY   =   0.7220342E-01
 MZ   = -0.4049397E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 5 *****

LOAD CASE   5 IS LOAD STEP     5  SUBSTEP     1  COMPLEX=  0
```

```
FILE= Pad-Th.105
PAD RESPONSE AT END OF 1.625 DAYS


COPY LOAD CASE   5 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  0.3834533E-03
 FY  =  -2004270.
 FZ  =  0.2426287E-03
 MX  =  0.6313452E+09
 MY  =  0.7219695E-01
 MZ  = -0.4088712E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 6 *****

LOAD CASE   6 IS LOAD STEP     6  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.106
PAD RESPONSE AT END OF 2.125 DAYS


COPY LOAD CASE   6 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  0.3833923E-03
 FY  =  -2023542.
 FZ  =  0.2426693E-03
 MX  =  0.6374158E+09
 MY  =  0.7219889E-01
 MZ  = -0.4128026E+09
```

```
SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 7 *****

LOAD CASE   7 IS LOAD STEP     7  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.107
PAD RESPONSE AT END OF 2.375 DAYS


COPY LOAD CASE   7 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  0.3834591E-03
 FY  =  -2042814.
 FZ  =  0.2426448E-03
 MX  =  0.6434864E+09
 MY  =  0.7220398E-01
 MZ  = -0.4167341E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 8 *****

LOAD CASE   8 IS LOAD STEP     8  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.108
PAD RESPONSE AT END OF 3.125 DAYS


COPY LOAD CASE   8 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE
```

```
***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.3834514E-03
 FY   =  -2062086.
 FZ   =  0.2426424E-03
 MX   =  0.6495571E+09
 MY   =  0.7219778E-01
 MZ   = -0.4206655E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 9 *****

LOAD CASE   9 IS LOAD STEP     9  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.109
PAD RESPONSE AT END OF 4.125 DAYS


COPY LOAD CASE   9 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.3834334E-03
 FY   =  -2081358.
 FZ   =  0.2426677E-03
 MX   =  0.6556277E+09
 MY   =  0.7219028E-01
 MZ   = -0.4245970E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

************************
*****  LOAD CASE 10 *****

LOAD CASE  10 IS LOAD STEP    10  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.110
PAD RESPONSE AT END OF 6.125 DAYS


COPY LOAD CASE  10 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY
```

```
ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.3835999E-03
 FY   =  -2100630.
 FZ   =  0.2424051E-03
 MX   =  0.6616983E+09
 MY   =  0.7232303E-01
 MZ   = -0.4285284E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

**************************
*****  LOAD CASE 11 *****

LOAD CASE  11 IS LOAD STEP    11  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.111
PAD RESPONSE AT END OF 7.875 DAYS


COPY LOAD CASE  11 FROM FILE TO DATABASE

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

SELECT      COMPONENT BOT

ALSO SELECT COMPONENT SYMXY

ALSO SELECT COMPONENT SYMYZ

ALSO SELECT COMPONENT XEDGE

ALSO SELECT COMPONENT ZEDGE

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  0.3835706E-03
 FY   =  -2119901.
 FZ   =  0.2423489E-03
 MX   =  0.6677689E+09
 MY   =  0.7232273E-01
 MZ   = -0.4324599E+09

SUMMATION POINT=  0.0000      0.0000      0.0000

**************************
**************************


EXIT THE ANSYS POST1 DATABASE PROCESSOR


***** ROUTINE COMPLETED *****  CP =          7.040
```

```
EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED=          2
NUMBER OF ERROR   MESSAGES ENCOUNTERED=          0

*------------------------------------------------------------------------------*
|                                                                              |
|                            ANSYS RUN COMPLETED                               |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|           Release 6.1              UP20020321          INTEL NT              |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|   Maximum Scratch Memory Used       =     1025420 Words         3.912 MB     |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|        CP Time      (sec) =           7.050       Time  =  17:37:41          |
|        Elapsed Time (sec) =          11.000       Date  =  06/10/2002        |
|                                                                              |
*------------------------------------------------------------------------------*
```

ENERCON
SERVICES, INC.

Appendix DPad-TH to Calculation PGE-009-CALC-006

Originator: S. C. Tumminelli
Date: September 20, 2002
Revised: March 3, 2003

Appendix DPad-TH

This Appendix presents the ANSYS output file documenting the pad vertical displacements for the constrained model thermal stress analysis.

ANSYS/Mechanical U

```
*-----------------------------------------------------------------*
|                                                                 |
|   W E L C O M E   T O   T H E   A N S Y S   P R O G R A M       |
|                                                                 |
*-----------------------------------------------------------------*
```

```
                    Completing ANSYS Load Process.


        *****  ANSYS COMMAND LINE ARGUMENTS  *****
 INITIAL JOBNAME                = PAD-TH
 BATCH MODE REQUESTED           = LIST
 MEMORY REQUESTED (MB)          = 800
 DATABASE SIZE REQUESTED (MB) = 250

*** WARNING ***                            CP=      0.220   TIME= 17:38:49
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed.  Only use the -M
 switch if you are certain that you need to do so.

PARAMETER STATUS-            (    1 PARAMETERS DEFINED)
                 (INCLUDING      1 INTERNAL PARAMETERS)

00245050          VERSION=INTEL NT        RELEASE= 6.1      UP20020321
CURRENT JOBNAME=PAD-TH  17:38:49  JUN 10, 2002 CP=      0.220

    1  /COM
    2  /COM     DISPLACEMENT DATA SORTED AND PRINTED BY LOAD CASE
    3  /COM
    4  /FILE,Pad-Th
    5  RESUME
    6  /header,on,off,off,off,on,off
    7  /POST1
    8  /COM
    9  /COM
   10  EALL
   11  NALL
   12  /COM
   13  /COM ================================================================
   14  /COM ==============  LCASE 1  ==================================
   15  /COM
   16  LCFILE,1
   17  LCASE,1
   18  /COM
   19  /COM ================================================================
   20  /COM =============== VALUES OF Uy    ============================
   21  /COM
   22  NSEL,S,NODE,,113,133,20
   23  PRNSOL,U,Y
   24  /COM
   25  /COM ================================================================
   26  /COM ==============  LCASE 2  ==================================
   27  /COM
   28  LCFILE,2
   29  LCASE,2
   30  /COM
   31  /COM ================================================================
   32  /COM =============== VALUES OF Uy    ============================
   33  /COM
   34  PRNSOL,U,Y
   35  /COM
   36  /COM ================================================================
```

```
/COM ==============  LCASE 3  ==================================
/COM
LCFILE,3
LCASE,3
/COM
/COM ============================================================
/COM =============== VALUES OF Uy    ============================
/COM
PRNSOL,U,Y
/COM
/COM ============================================================
/COM ==============  LCASE 4  ==================================
/COM
LCFILE,4
LCASE,4
/COM
/COM ============================================================
/COM =============== VALUES OF Uy    ============================
/COM
PRNSOL,U,Y
/COM
/COM ============================================================
/COM ==============  LCASE 5  ==================================
/COM
LCFILE,5
LCASE,5
/COM
/COM ============================================================
/COM =============== VALUES OF Uy    ============================
/COM
PRNSOL,U,Y
/COM
/COM ============================================================
/COM ==============  LCASE 6  ==================================
/COM
LCFILE,6
LCASE,6
/COM
/COM ============================================================
/COM =============== VALUES OF Uy    ============================
/COM
PRNSOL,U,Y
/COM
/COM ============================================================
/COM ==============  LCASE 7  ==================================
/COM
LCFILE,7
LCASE,7
/COM
/COM ============================================================
/COM =============== VALUES OF Uy    ============================
/COM
PRNSOL,U,Y
/COM
/COM ============================================================
/COM ==============  LCASE 8  ==================================
/COM
```

```
  94  LCFILE,8
  95  LCASE,8
  96  /COM
  97  /COM ================================================================
  98  /COM ================ VALUES OF Uy     ============================
  99  /COM
 100  PRNSOL,U,Y
 101  /COM
 102  /COM ================================================================
 103  /COM ==============  LCASE 9  ========================================
 104  /COM
 105  LCFILE,9
 106  LCASE,9
 107  /COM
 108  /COM ================================================================
 109  /COM ================ VALUES OF Uy     ============================
 110  /COM
 111  PRNSOL,U,Y
 112  /COM
 113  /COM ================================================================
 114  /COM ==============  LCASE 10  ========================================
 115  /COM
 116  LCFILE,10
 117  LCASE,10
 118  /COM
 119  /COM ================================================================
 120  /COM ================ VALUES OF Uy     ============================
 121  /COM
 122  PRNSOL,U,Y
 123  /COM
 124  /COM ================================================================
 125  /COM ==============  LCASE 11  ========================================
 126  /COM
 127  LCFILE,11
 128  LCASE,11
 129  /COM
 130  /COM ================================================================
 131  /COM ================ VALUES OF Uy     ============================
 132  /COM
 133  PRNSOL,U,Y
 134  /COM
 135  /COM ================================================================
 136  /COM ================================================================
 137  /COM
 138  FINI
 139  /EXIT,NOSAVE
 140
 141

 RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys
Inc\ANSYS61\docu\start61.ans

 /INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans  LINE=       0

     DISPLACEMENT DATA SORTED AND PRINTED BY LOAD CASE
```

```
CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

*** ANSYS GLOBAL STATUS ***

TITLE = DELTA T 6.125 TO 7.875 DAYS
ANALYSIS TYPE =  STATIC (STEADY-STATE)
NUMBER OF ELEMENT TYPES =      5
   8812 ELEMENTS CURRENTLY SELECTED.  MAX ELEMENT NUMBER =     9341
  10212 NODES CURRENTLY SELECTED.     MAX NODE NUMBER =       10212
    166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER =     166
    339 LINES CURRENTLY SELECTED.     MAX LINE NUMBER =         339
      2 AREAS CURRENTLY SELECTED.     MAX AREA NUMBER =         224
     48 VOLUMES CURRENTLY SELECTED.   MAX VOL. NUMBER =          48
    22 COMPONENTS CURRENTLY DEFINED
MAXIMUM LINEAR PROPERTY NUMBER        =      12
MAXIMUM REAL CONSTANT SET NUMBER      =       1
ACTIVE COORDINATE SYSTEM              =       0  (CARTESIAN)
MAXIMUM COUPLED D.O.F. SET NUMBER     =     367
NUMBER OF SPECIFIED CONSTRAINTS       =    4657
CURRENT LOAD CASE =      0 OF      0
LOAD SET    =      11
SUBSTEP     =       1
TIME/FREQ   =    11.000

INITIAL JOBNAME = PAD-TH
CURRENT JOBNAME = Pad-Th


PRINT HEADER
DO NOT PRINT SUBTITLE(S)
DO NOT PRINT LOAD STEP ID
DO NOT PRINT NOTE LINE(S)
PRINT COLUMN HEADER LABELS
DO NOT PRINT REPORT TOTALS
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:38:50  JUN 10, 2002 CP=      0.701

DELTA T 6.125 TO 7.875 DAYS


         ***** ANSYS RESULTS INTERPRETATION (POST1) *****

*** WARNING ***                         CP=      0.701   TIME= 17:38:50
The current solution may have been produced using different model or
boundary condition data than is currently stored.  POST1 results may
 be erroneous unless you perform a new solution using the stored data.

*** NOTE ***                            CP=      0.701   TIME= 17:38:50
Reading results into the database (SET command) will update the current
displacement and force boundary conditions in the database with the
values from the results file for that load set.  Note that any
subsequent solutions will use these values unless action is taken to
```

```
 either SAVE the current values or not overwrite them (/EXIT,NOSAVE).


    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

 ===========================================================
 ==============  LCASE 1  ==================================


 LOAD CASE   1 IS LOAD STEP     1  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.101
 PAD RESPONSE AT END OF 0.25 DAYS


 COPY LOAD CASE   1 FROM FILE TO DATABASE

 ===========================================================
 =============== VALUES OF Uy    ============================


 SELECT       FOR ITEM=NODE COMPONENT=
  IN RANGE     113 TO      133 STEP       20

       2  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:51  JUN 10, 2002 CP=      1.182

 PAD RESPONSE AT END OF 0.25 DAYS


    NODE      UY
     113  0.82439E-02
     133  0.22248E-02

 ===========================================================
 ==============  LCASE 2  ==================================


 LOAD CASE   2 IS LOAD STEP     2  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.102
 PAD RESPONSE AT END OF 0.50 DAYS


 COPY LOAD CASE   2 FROM FILE TO DATABASE

 ===========================================================
 =============== VALUES OF Uy    ============================
```

```
 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:51  JUN 10, 2002 CP=      1.692

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE      UY
     113  0.34784
     133  0.42626E-02

 ================================================================
 ==============  LCASE 3  ======================================


 LOAD CASE   3 IS LOAD STEP     3  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.103
 PAD RESPONSE AT END OF 0.625 DAYS


 COPY LOAD CASE   3 FROM FILE TO DATABASE

 ================================================================
 =============== VALUES OF Uy    ================================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:52  JUN 10, 2002 CP=      2.183

 PAD RESPONSE AT END OF 0.625 DAYS


    NODE      UY
     113  0.49862
     133  0.51626E-02

 ================================================================
 ==============  LCASE 4  ======================================


 LOAD CASE   4 IS LOAD STEP     4  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.104
 PAD RESPONSE AT END OF 1.125 DAYS


 COPY LOAD CASE   4 FROM FILE TO DATABASE

 ================================================================
 =============== VALUES OF Uy    ================================
```

```
 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:52  JUN 10, 2002 CP=      2.624

 PAD RESPONSE AT END OF 1.125 DAYS


    NODE      UY
     113  0.59631
     133  0.82396E-02

 ================================================================
 ==============  LCASE 5  ======================================


 LOAD CASE   5 IS LOAD STEP     5  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.105
 PAD RESPONSE AT END OF 1.625 DAYS


 COPY LOAD CASE   5 FROM FILE TO DATABASE

 ================================================================
 ================ VALUES OF Uy    ===============================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:53  JUN 10, 2002 CP=      3.104

 PAD RESPONSE AT END OF 1.625 DAYS


    NODE      UY
     113  0.59842
     133  0.10350E-01

 ================================================================
 ==============  LCASE 6  ======================================


 LOAD CASE   6 IS LOAD STEP     6  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.106
 PAD RESPONSE AT END OF 2.125 DAYS


 COPY LOAD CASE   6 FROM FILE TO DATABASE

 ================================================================
 ================ VALUES OF Uy    ===============================
```

```
 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:53  JUN 10, 2002 CP=      3.525

 PAD RESPONSE AT END OF 2.125 DAYS


    NODE      UY
     113  0.59971
     133  0.11648E-01

 ================================================================
 ==============  LCASE 7  ======================================


 LOAD CASE   7 IS LOAD STEP     7  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.107
 PAD RESPONSE AT END OF 2.375 DAYS


 COPY LOAD CASE   7 FROM FILE TO DATABASE

 ================================================================
 ================ VALUES OF Uy    ===============================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:54  JUN 10, 2002 CP=      4.036

 PAD RESPONSE AT END OF 2.375 DAYS


    NODE      UY
     113  0.60012
     133  0.12061E-01

 ================================================================
 ==============  LCASE 8  ======================================


 LOAD CASE   8 IS LOAD STEP     8  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.108
 PAD RESPONSE AT END OF 3.125 DAYS


 COPY LOAD CASE   8 FROM FILE TO DATABASE

 ================================================================
```

```
================ VALUES OF Uy     ============================

 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:54  JUN 10, 2002 CP=       4.527

 PAD RESPONSE AT END OF 3.125 DAYS


    NODE      UY
     113  0.60126
     133  0.13198E-01

 ================================================================
 ==============  LCASE 9  ======================================


 LOAD CASE   9 IS LOAD STEP     9  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.109
 PAD RESPONSE AT END OF 4.125 DAYS


 COPY LOAD CASE   9 FROM FILE TO DATABASE

 ================================================================
 ================ VALUES OF Uy     ============================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:55  JUN 10, 2002 CP=       4.977

 PAD RESPONSE AT END OF 4.125 DAYS


    NODE      UY
     113  0.60187
     133  0.13814E-01

 ================================================================
 ==============  LCASE 10  =====================================


 LOAD CASE  10 IS LOAD STEP    10  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.110
 PAD RESPONSE AT END OF 6.125 DAYS


 COPY LOAD CASE  10 FROM FILE TO DATABASE
```

```
 ============================================================
 =============== VALUES OF Uy     ============================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:55  JUN 10, 2002 CP=      5.478

 PAD RESPONSE AT END OF 6.125 DAYS


    NODE      UY
     113  0.60181
     133  0.13761E-01

 ============================================================
 ==============  LCASE 11  ==================================


 LOAD CASE  11 IS LOAD STEP    11  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.111
 PAD RESPONSE AT END OF 7.875 DAYS


 COPY LOAD CASE  11 FROM FILE TO DATABASE

 ============================================================
 =============== VALUES OF Uy     ============================


 PRINT U    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:38:56  JUN 10, 2002 CP=      5.919

 PAD RESPONSE AT END OF 7.875 DAYS


    NODE      UY
     113  0.60082
     133  0.12766E-01

 ============================================================
 ============================================================


 EXIT THE ANSYS POST1 DATABASE PROCESSOR


 ***** ROUTINE COMPLETED *****  CP =         5.929
```


```
EXIT ANSYS WITHOUT SAVING DATABASE


NUMBER OF WARNING MESSAGES ENCOUNTERED=          2
NUMBER OF ERROR   MESSAGES ENCOUNTERED=          0

*------------------------------------------------------------------------------*
|                                                                              |
|                          ANSYS RUN COMPLETED                                 |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|           Release 6.1             UP20020321          INTEL NT               |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|   Maximum Scratch Memory Used      =     1025420 Words         3.912 MB      |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|        CP Time      (sec) =          5.929       Time  =  17:38:56           |
|        Elapsed Time (sec) =          8.000       Date  =  06/10/2002         |
|                                                                              |
*------------------------------------------------------------------------------*
```

ENERCON
SERVICES, INC.

Appendix SPad-TH to Calculation PGE-009-CALC-006

Originator: S. C. Tumminelli
Date: September 20, 2002
Revised: March 3, 2003

Appendix SPad-TH

This Appendix presents the ANSYS output file documenting the pad stress response for the constrained model thermal stress analysis.

ANSYS/Mechanical U

```
*------------------------------------------------------------*
|                                                            |
|   W E L C O M E   T O   T H E   A N S Y S   P R O G R A M  |
|                                                            |
*------------------------------------------------------------*
```

```
*************************************************************
*                        ANSYS 6.1 NOTICES                  *
*************************************************************
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*************************************************************
```

```
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* USEFULNESS OF THE RESULTS.                                *
*************************************************************
```

```
                    Completing ANSYS Load Process.


        *****  ANSYS COMMAND LINE ARGUMENTS  *****
 INITIAL JOBNAME                = PAD-TH
 BATCH MODE REQUESTED           = LIST
 MEMORY REQUESTED (MB)          = 800
 DATABASE SIZE REQUESTED (MB) = 250

*** WARNING ***                          CP=      0.230   TIME= 17:39:45
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed.  Only use the -M
 switch if you are certain that you need to do so.

PARAMETER STATUS-            (    1 PARAMETERS DEFINED)
                  (INCLUDING      1 INTERNAL PARAMETERS)

00245050          VERSION=INTEL NT        RELEASE= 6.1     UP20020321
CURRENT JOBNAME=PAD-TH  17:39:45  JUN 10, 2002 CP=      0.230

    1  /COM
    2  /COM
    3  /COM      STRESS DATA SORTED AND PRINTED BY LOAD CASE
    4  /COM
    5  /COM
    6  /COM
    7  /COM      THIS ROUTINE SORTS AND PRINTS STRESS DATA BY LOAD CASE
    8  /COM      FIRST SX, SZ, S1 (MAX) AND S3 (MIN)
    9  /COM
   10  /COM
   11  /file,Pad-Th
   12  resume
   13  /header,on,off,off,off,on,off
   14  /post1
   15  /COM
   16  EALL
   17  NALL
   18  /COM
   19  /COM ================================================================
   20  /COM ================================================================
   21  /COM ================================================================
   22  /COM ======================  LCASE 1  ==============================
   23  /COM
   24  LCFILE,1
   25  LCASE,1
   26  ESEL,TYPE,2
   27  NELEM
   28  /COM
   29  /COM ================================================================
   30  /COM ============    MAXIMUM VALUES OF SX    ======================
   31  /COM
   32  NSORT,S,X,0,0,2,SEL
   33  PRNSOL,S
   34  NUSORT
   35  /COM
```

```
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 2  ================================
/COM
LCFILE,2
LCASE,2
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
```

```
 93  NUSORT
 94  /COM
 95  /COM ================================================================
 96  /COM ============     MAXIMUM VALUES OF SZ     ======================
 97  /COM
 98  NSORT,S,Z,0,0,2,SEL
 99  PRNSOL,S
100  NUSORT
101  /COM
102  /COM ================================================================
103  /COM ============     MINIMUM VALUES OF SZ     ======================
104  /COM
105  NSORT,S,Z,1,0,2,SEL
106  PRNSOL,S
107  /COM
108  /COM
109  /COM ================================================================
110  /COM ============     MAXIMUM VALUES OF S1     ======================
111  /COM
112  NSORT,S,1,0,0,2,SEL
113  PRNSOL,S,PRIN
114  NUSORT
115  /COM
116  /COM ================================================================
117  /COM ============     MINIMUM VALUES OF S3     ======================
118  /COM
119  NSORT,S,3,1,0,2,SEL
120  PRNSOL,S,PRIN
121  NUSORT
122  /COM
123  /COM ================================================================
124  /COM ================================================================
125  /COM ================================================================
126  /COM ======================  LCASE 3  ==============================
127  /COM
128  LCFILE,3
129  LCASE,3
130  ESEL,TYPE,2
131  NELEM
132  /COM
133  /COM ================================================================
134  /COM ============     MAXIMUM VALUES OF SX     ======================
135  /COM
136  NSORT,S,X,0,0,2,SEL
137  PRNSOL,S
138  NUSORT
139  /COM
140  /COM ================================================================
141  /COM ============     MINIMUM VALUES OF SX     ======================
142  /COM
143  NSORT,S,X,1,0,2,SEL
144  PRNSOL,S
145  NUSORT
146  /COM
147  /COM ================================================================
148  /COM ============     MAXIMUM VALUES OF SZ     ======================
149  /COM
```

```
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF SZ     ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF S1     ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF S3     ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 4  ==============================
/COM
LCFILE,4
LCASE,4
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF SX     ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF SX     ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF SZ     ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
```

```
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 5  ============================
/COM
LCFILE,5
LCASE,5
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
```

```
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 6  ==============================
/COM
LCFILE,6
LCASE,6
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
```

```
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 7  ==============================
/COM
LCFILE,7
LCASE,7
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
```

```
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 8  ==============================
/COM
LCFILE,8
LCASE,8
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SX    ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF SZ    ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============    MAXIMUM VALUES OF S1    ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ============    MINIMUM VALUES OF S3    ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
```

```
/COM ============================================================
/COM ============================================================
/COM ======================  LCASE 9  ============================
/COM
LCFILE,9
LCASE,9
ESEL,TYPE,2
NELEM
/COM
/COM ============================================================
/COM ============    MAXIMUM VALUES OF SX    ====================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ============================================================
/COM ============    MINIMUM VALUES OF SX    ====================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ============================================================
/COM ============    MAXIMUM VALUES OF SZ    ====================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ============================================================
/COM ============    MINIMUM VALUES OF SZ    ====================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ============================================================
/COM ============    MAXIMUM VALUES OF S1    ====================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ============================================================
/COM ============    MINIMUM VALUES OF S3    ====================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ============================================================
/COM ============================================================
/COM ============================================================
/COM ======================  LCASE 10  ===========================
/COM
LCFILE,10
```

```
LCASE,10
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF SX     ======================
/COM
NSORT,S,X,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF SX     ======================
/COM
NSORT,S,X,1,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF SZ     ======================
/COM
NSORT,S,Z,0,0,2,SEL
PRNSOL,S
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF SZ     ======================
/COM
NSORT,S,Z,1,0,2,SEL
PRNSOL,S
/COM
/COM
/COM ================================================================
/COM ============     MAXIMUM VALUES OF S1     ======================
/COM
NSORT,S,1,0,0,2,SEL
PRNSOL,S,PRIN      .
NUSORT
/COM
/COM ================================================================
/COM ============     MINIMUM VALUES OF S3     ======================
/COM
NSORT,S,3,1,0,2,SEL
PRNSOL,S,PRIN
NUSORT
/COM
/COM ================================================================
/COM ================================================================
/COM ================================================================
/COM ======================  LCASE 11  ==============================
/COM
LCFILE,11
LCASE,11
ESEL,TYPE,2
NELEM
/COM
/COM ================================================================
```

```
549  /COM ============    MAXIMUM VALUES OF SX    ======================
550  /COM
551  NSORT,S,X,0,0,2,SEL
552  PRNSOL,S
553  NUSORT
554  /COM
555  /COM ================================================================
556  /COM ============    MINIMUM VALUES OF SX    ======================
557  /COM
558  NSORT,S,X,1,0,2,SEL
559  PRNSOL,S
560  NUSORT
561  /COM
562  /COM ================================================================
563  /COM ============    MAXIMUM VALUES OF SZ    ======================
564  /COM
565  NSORT,S,Z,0,0,2,SEL
566  PRNSOL,S
567  NUSORT
568  /COM
569  /COM ================================================================
570  /COM ============    MINIMUM VALUES OF SZ    ======================
571  /COM
572  NSORT,S,Z,1,0,2,SEL
573  PRNSOL,S
574  /COM
575  /COM
576  /COM ================================================================
577  /COM ============    MAXIMUM VALUES OF S1    ======================
578  /COM
579  NSORT,S,1,0,0,2,SEL
580  PRNSOL,S,PRIN
581  NUSORT
582  /COM
583  /COM ================================================================
584  /COM ============    MINIMUM VALUES OF S3    ======================
585  /COM
586  NSORT,S,3,1,0,2,SEL
587  PRNSOL,S,PRIN
588  NUSORT
589  /COM
590  /COM ================================================================
591  /COM ================================================================
592  /COM ================================================================
593  /COM ================================================================
594  /COM
595  EALL
596  NALL
597  FINI
598  /OUTPUT
599  /EXIT,NOSAVE

 RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys
Inc\ANSYS61\docu\start61.ans

 /INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans  LINE=       0
```


```
    STRESS DATA SORTED AND PRINTED BY LOAD CASE


    THIS ROUTINE SORTS AND PRINTS STRESS DATA BY LOAD CASE
    FIRST SX, SZ, S1 (MAX) AND S3 (MIN)


CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

*** ANSYS GLOBAL STATUS ***

TITLE = DELTA T 6.125 TO 7.875 DAYS
ANALYSIS TYPE =  STATIC (STEADY-STATE)
NUMBER OF ELEMENT TYPES =      5
   8812 ELEMENTS CURRENTLY SELECTED.  MAX ELEMENT NUMBER =     9341
  10212 NODES CURRENTLY SELECTED.     MAX NODE NUMBER =       10212
    166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER =     166
    339 LINES CURRENTLY SELECTED.     MAX LINE NUMBER =         339
      2 AREAS CURRENTLY SELECTED.     MAX AREA NUMBER =         224
     48 VOLUMES CURRENTLY SELECTED.   MAX VOL. NUMBER =          48
     22 COMPONENTS CURRENTLY DEFINED
MAXIMUM LINEAR PROPERTY NUMBER        =      12
MAXIMUM REAL CONSTANT SET NUMBER      =       1
ACTIVE COORDINATE SYSTEM              =       0  (CARTESIAN)
MAXIMUM COUPLED D.O.F. SET NUMBER     =     367
NUMBER OF SPECIFIED CONSTRAINTS       =    4657
CURRENT LOAD CASE =      0 OF      0
LOAD SET   =      11
SUBSTEP    =       1
TIME/FREQ  =    11.000

INITIAL JOBNAME = PAD-TH
CURRENT JOBNAME = Pad-Th


PRINT HEADER
DO NOT PRINT SUBTITLE(S)
DO NOT PRINT LOAD STEP ID
DO NOT PRINT NOTE LINE(S)
PRINT COLUMN HEADER LABELS
DO NOT PRINT REPORT TOTALS
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:46  JUN 10, 2002 CP=      0.751

DELTA T 6.125 TO 7.875 DAYS

          ***** ANSYS RESULTS INTERPRETATION (POST1) *****
```

```
*** WARNING ***                                 CP=      0.751   TIME= 17:39:46
The current solution may have been produced using different model or
boundary condition data than is currently stored.  POST1 results may
 be erroneous unless you perform a new solution using the stored data.

*** NOTE ***                                    CP=      0.751   TIME= 17:39:46
Reading results into the database (SET command) will update the current
displacement and force boundary conditions in the database with the
values from the results file for that load set.  Note that any
subsequent solutions will use these values unless action is taken to
 either SAVE the current values or not overwrite them (/EXIT,NOSAVE).


    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 1  ==============================


 LOAD CASE   1 IS LOAD STEP     1  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.101
 PAD RESPONSE AT END OF 0.25 DAYS


 COPY LOAD CASE   1 FROM FILE TO DATABASE

 ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

     1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

 SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     2376 NODES (OF    10212  DEFINED) SELECTED FROM
     1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============    MAXIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:47  JUN 10, 2002 CP=      1.392

 PAD RESPONSE AT END OF 0.25 DAYS
```

NODE	SX	SY	SZ	SXY	SYZ	SXZ
838	36.343	-0.81564	-11.185	0.42647	1.2265	-10.374
839	36.169	-0.55461	3.5067	0.44242	1.3791	-14.486

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF SX ==========

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:47 JUN 10, 2002 CP= 1.412

PAD RESPONSE AT END OF 0.25 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
2817	-122.86	-369.93	-117.39	126.93	121.38	-17.968
2837	-103.04	-57.817	-70.010	59.504	58.274	-7.2475

NODE SORT REMOVED

==========
========== MAXIMUM VALUES OF SZ ==========

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:47 JUN 10, 2002 CP= 1.432

PAD RESPONSE AT END OF 0.25 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
2659	-31.149	-0.94337	35.296	0.70818	-0.64952	-5.8041
2658	-38.529	-0.98118	35.263	0.49591	-0.59618	-3.5070

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF SZ ==========

```
 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:47  JUN 10, 2002 CP=      1.462

 PAD RESPONSE AT END OF 0.25 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
    2817  -122.86     -369.93     -117.39      126.93      121.38     -17.968
      26  -97.821    -0.91153     -116.86     0.60227     0.20793     0.20342E-01


 ================================================================
 ============    MAXIMUM VALUES OF S1    ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:47  JUN 10, 2002 CP=      1.482

 PAD RESPONSE AT END OF 0.25 DAYS


    NODE    S1          S2          S3          SINT        SEQV
     626   49.092      11.203     -1.8546      50.946      45.834
    2663   48.952      16.391     -1.7938      50.746      44.531

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF S3    ======================


 SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
```

```
00245050          VERSION=INTEL NT      17:39:47  JUN 10, 2002 CP=      1.502

PAD RESPONSE AT END OF 0.25 DAYS


   NODE     S1          S2          S3          SINT        SEQV
   2817  -43.616     -102.10     -464.47      420.85      394.87
   2818  -26.438     -76.933     -397.48      371.04      348.55

NODE SORT REMOVED

================================================================
================================================================
================================================================
======================  LCASE 2  ==============================


LOAD CASE   2 IS LOAD STEP     2  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.102
PAD RESPONSE AT END OF 0.50 DAYS


COPY LOAD CASE   2 FROM FILE TO DATABASE

ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

================================================================
============    MAXIMUM VALUES OF SX    ======================


SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.123

PAD RESPONSE AT END OF 0.50 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
    824   229.29     -0.48006     204.71      0.60414     1.3658     -10.305
    825   229.08      -1.2877     220.60      0.58166     1.2315     -13.858

NODE SORT REMOVED
```

```
 ================================================================
 ============     MINIMUM VALUES OF SX     ======================


 SORT ON ITEM=S      COMPONENT=X      ORDER= 1   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=       2.143

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
    1720  -241.70     -1.2937     -227.96      1.2522      15.719    -0.47426
      71  -241.67    -0.79466     -256.24      1.5684     0.55897    -0.78080E-02

 NODE SORT REMOVED

 ================================================================
 ============     MAXIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S      COMPONENT=Z      ORDER= 0   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=       2.153

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
     622   185.54     -2.1068      236.42     0.68621    0.87546E-01  -7.0396
     621   177.00     -2.3944      236.35     0.43051     0.13315     -4.4727

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S      COMPONENT=Z      ORDER= 1   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
```

```
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.173

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
      71  -241.67    -0.79466    -256.24      1.5684     0.55897   -0.78080E-02
      78  -241.21    -0.87746    -256.22      3.1812     0.55601   -0.15628E-01


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.183

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE    S1          S2          S3          SINT        SEQV
     625   247.08      212.93     -3.1698      250.25      235.04
     626   241.57      206.11     -4.2988      245.87      230.19

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.203

 PAD RESPONSE AT END OF 0.50 DAYS


    NODE    S1          S2          S3          SINT        SEQV
```

```
   2817  -18.781     -168.99     -613.35      594.57      535.50
   2818   15.565     -118.42     -494.47      510.03      457.98

 NODE SORT REMOVED

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 3  ==============================


 LOAD CASE   3 IS LOAD STEP     3  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.103
 PAD RESPONSE AT END OF 0.625 DAYS


 COPY LOAD CASE   3 FROM FILE TO DATABASE

 ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

     1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

 SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     2376 NODES (OF    10212  DEFINED) SELECTED FROM
     1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============    MAXIMUM VALUES OF SX    ========================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.804

 PAD RESPONSE AT END OF 0.625 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
     824   351.46     -0.63540     328.21     0.42880      1.4027     -11.366
     823   351.03      -1.0066     314.64     0.44491     0.75155     -7.8367

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF SX    ========================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2
```

```
 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.814

 PAD RESPONSE AT END OF 0.625 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
    1510  -299.78     -6.4839     -283.05      1.5879      17.781     -0.52942
    1706  -299.70     -6.6893     -283.13      2.7449      17.714      -1.0548

 NODE SORT REMOVED

 ================================================================
 ============    MAXIMUM VALUES OF SZ    ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.834

 PAD RESPONSE AT END OF 0.625 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
     621   300.92     -3.4337      360.35      0.44356     0.28514     -5.0057
     622   309.13     -3.3313      360.30      0.64859     0.24175     -7.7476

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF SZ    ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:48  JUN 10, 2002 CP=      2.844
```

PAD RESPONSE AT END OF 0.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
66	-289.71	-1.3262	-313.22	17.574	0.50939	-0.15102
68	-295.49	-0.79412	-313.13	10.264	0.56197	-0.88522E-01

==========
========== MAXIMUM VALUES OF S1 ==========

SORT ON ITEM=S COMPONENT=1 ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.864

PAD RESPONSE AT END OF 0.625 DAYS

NODE	S1	S2	S3	SINT	SEQV
625	371.00	334.24	-4.1138	375.11	358.15
624	365.79	327.61	-3.2218	369.01	351.48

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF S3 ==========

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:48 JUN 10, 2002 CP= 2.874

PAD RESPONSE AT END OF 0.625 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	-13.156	-199.33	-701.21	688.05	616.42
2818	50.836	-105.30	-549.60	600.44	539.59

NODE SORT REMOVED

==========

```
================================================================
================================================================
======================  LCASE 4  ==============================

LOAD CASE   4 IS LOAD STEP      4  SUBSTEP      1  COMPLEX=  0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS


COPY LOAD CASE   4 FROM FILE TO DATABASE

ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

================================================================
============    MAXIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=      3.475

 PAD RESPONSE AT END OF 1.125 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
    825   503.88     -0.38527     504.94      0.20559     2.0548     -13.412
    824   503.03     -0.94352     484.92      0.24377     1.0997     -10.068

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
```

```
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=      3.485

PAD RESPONSE AT END OF 1.125 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
   1720  -469.89    -0.84795    -444.92      1.3107      14.609    -0.82113
   1718  -469.61     -1.2413    -460.87      1.3487      16.515    -0.65502

NODE SORT REMOVED

=====================================================================
============     MAXIMUM VALUES OF SZ     ======================


SORT ON ITEM=S     COMPONENT=Z     ORDER= 0  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=      3.505

PAD RESPONSE AT END OF 1.125 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
    769   464.05     0.55946      510.55     0.40711      2.0831    -4.2446
    755   458.75     0.56374      510.53     0.28002      2.1045    -2.5368

NODE SORT REMOVED

=====================================================================
============     MINIMUM VALUES OF SZ     ======================


SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=      3.525

PAD RESPONSE AT END OF 1.125 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
     71  -469.20    -0.94004    -492.78      1.6256     0.58684   -0.16064E-01
     78  -468.45     -1.0518    -492.74      3.3168     0.58393   -0.32108E-01
```

```
 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S      COMPONENT=1      ORDER= 0   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=       3.535

 PAD RESPONSE AT END OF 1.125 DAYS


    NODE     S1          S2          S3          SINT        SEQV
     825   517.84      491.00    -0.39376      518.23      505.35
     625   517.76      485.86     -7.4370      525.20      510.00

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S      COMPONENT=3      ORDER= 1   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:49  JUN 10, 2002 CP=       3.555

 PAD RESPONSE AT END OF 1.125 DAYS


    NODE     S1          S2          S3          SINT        SEQV
    2817   46.702     -264.42     -908.92      955.63      844.22
    2818   142.68     -121.92     -680.04      822.72      727.46

 NODE SORT REMOVED

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 5  ==============================


 LOAD CASE   5 IS LOAD STEP      5  SUBSTEP      1  COMPLEX=  0
```

```
FILE= Pad-Th.105
PAD RESPONSE AT END OF 1.625 DAYS


COPY LOAD CASE   5 FROM FILE TO DATABASE

ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============    MAXIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.136

 PAD RESPONSE AT END OF 1.625 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
    825   524.66    -0.15934      532.28     0.96681E-01  2.7287     -11.198
    824   522.88     -1.1105      509.22      0.13774     0.83792    -8.2756

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.146

 PAD RESPONSE AT END OF 1.625 DAYS
```

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-567.62	-2.2889	-594.04	1.1321	0.50836	-0.12745E-01
1721	-567.60	-2.2961	-593.83	1.1279	1.0075	-0.25813E-01

NODE SORT REMOVED

==========
========== MAXIMUM VALUES OF SZ ==========

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.166

PAD RESPONSE AT END OF 1.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
769	492.34	0.89242	537.49	0.37725	2.7540	-3.5650
755	487.62	0.80200	537.39	0.23730	2.7740	-2.1198

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF SZ ==========

SORT ON ITEM=S COMPONENT=Z ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:50 JUN 10, 2002 CP= 4.176

PAD RESPONSE AT END OF 1.625 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
72	-567.62	-2.2889	-594.04	1.1321	0.50836	-0.12745E-01
77	-566.83	-2.0157	-593.94	2.3383	0.50349	-0.25294E-01

==========
========== MAXIMUM VALUES OF S1 ==========

```
 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.196

 PAD RESPONSE AT END OF 1.625 DAYS


    NODE    S1          S2          S3          SINT        SEQV
     825   540.31      516.65    -0.17337      540.48      529.05
     811   539.16      511.79     0.78294      538.38      525.23

 NODE SORT REMOVED

 ================================================================
 ============    MINIMUM VALUES OF S3    ======================


 SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.216

 PAD RESPONSE AT END OF 1.625 DAYS


    NODE    S1          S2          S3          SINT        SEQV
    2817   85.453     -289.70     -1004.6      1090.1      959.20
    2818   198.07     -121.50     -733.00      931.08      819.44

 NODE SORT REMOVED

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 6  ==============================


 LOAD CASE   6 IS LOAD STEP     6  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.106
 PAD RESPONSE AT END OF 2.125 DAYS


 COPY LOAD CASE   6 FROM FILE TO DATABASE
```

```
    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

 SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     2376 NODES (OF     10212  DEFINED) SELECTED FROM
     1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============     MAXIMUM VALUES OF SX     ======================


 SORT ON ITEM=S      COMPONENT=X      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.807

 PAD RESPONSE AT END OF 2.125 DAYS


    NODE     SX          SY          SZ          SXY          SYZ          SXZ
     825    488.41     -0.17477     499.50     0.14904E-01   3.0091      -9.9106
     824    486.23      -1.1825     475.40     0.53120E-01  0.68972      -7.2725

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SX     ======================


 SORT ON ITEM=S      COMPONENT=X      ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.827

 PAD RESPONSE AT END OF 2.125 DAYS


    NODE     SX          SY          SZ          SXY          SYZ          SXZ
      72   -615.81     -7.2456     -643.89    -0.83746E-01-0.30609    -0.37858E-01
    1721   -615.77     -6.5448     -643.65     0.30058E-01-0.40303    -0.82076E-01

 NODE SORT REMOVED

 ================================================================
```

```
============     MAXIMUM VALUES OF SZ     ======================

 SORT ON ITEM=S      COMPONENT=Z      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT       17:39:50  JUN 10, 2002 CP=       4.837

 PAD RESPONSE AT END OF 2.125 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
     769   460.60      0.93279     504.39      0.36053     3.0269     -3.1926
     755   456.23      0.79105     504.23      0.21378     3.0459     -1.8918

 NODE SORT REMOVED

 ============================================================
 ============     MINIMUM VALUES OF SZ     ======================

 SORT ON ITEM=S      COMPONENT=Z      ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT       17:39:50  JUN 10, 2002 CP=       4.857

 PAD RESPONSE AT END OF 2.125 DAYS


    NODE     SX          SY          SZ          SXY          SYZ          SXZ
      72   -615.81     -7.2456     -643.89    -0.83746E-01-0.30609    -0.37858E-01
    1721   -615.77     -6.5448     -643.65     0.30058E-01-0.40303    -0.82076E-01


 ============================================================
 ============     MAXIMUM VALUES OF S1     ======================

 SORT ON ITEM=S      COMPONENT=1      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
```

```
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.867

PAD RESPONSE AT END OF 2.125 DAYS


   NODE     S1          S2          S3          SINT        SEQV
   2710   513.79      -118.56     -194.25      708.04      673.39
   2709   513.05      -109.12     -164.74      677.80      651.77

NODE SORT REMOVED

============================================================
============    MINIMUM VALUES OF S3    ======================


SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:50  JUN 10, 2002 CP=      4.887

PAD RESPONSE AT END OF 2.125 DAYS


   NODE     S1          S2          S3          SINT        SEQV
   2817   98.781      -299.06     -1050.7      1149.5      1011.1
   2818   218.52      -119.38     -757.39      975.91      858.38

NODE SORT REMOVED

============================================================
============================================================
============================================================
======================  LCASE 7  ==========================


LOAD CASE   7 IS LOAD STEP     7  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.107
PAD RESPONSE AT END OF 2.375 DAYS


COPY LOAD CASE   7 FROM FILE TO DATABASE

ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.
```

```
 ===========================================================
 ============    MAXIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:51  JUN 10, 2002 CP=      5.488

 PAD RESPONSE AT END OF 2.375 DAYS


    NODE    SX          SY          SZ          SXY          SYZ          SXZ
     825   465.40    -0.22299      477.51    -0.26449E-01  3.0375      -9.6111
     824   463.16     -1.1997      453.53     0.90360E-02 0.63861      -7.1064

 NODE SORT REMOVED

 ===========================================================
 ============    MINIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:51  JUN 10, 2002 CP=      5.508

 PAD RESPONSE AT END OF 2.375 DAYS


    NODE    SX          SY          SZ          SXY          SYZ          SXZ
      72  -624.43     -9.8362     -652.83     -0.71112     -0.70377     -0.29655E-01
    1721  -624.34     -9.0479     -652.52     -0.59278      -1.1652     -0.74398E-01

 NODE SORT REMOVED

 ===========================================================
 ============    MAXIMUM VALUES OF SZ    ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.
```

```
 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:51  JUN 10, 2002 CP=       5.518

 PAD RESPONSE AT END OF 2.375 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
     769   439.43      0.89836     482.18      0.35289     3.0489     -3.1942
     783   444.36      0.66078     481.97      0.31512     3.0307     -4.7982

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:51  JUN 10, 2002 CP=       5.538

 PAD RESPONSE AT END OF 2.375 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
      72  -624.43     -9.8362     -652.83     -0.71112    -0.70377    -0.29655E-01
    1721  -624.34     -9.0479     -652.52     -0.59278     -1.1652    -0.74398E-01


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:51  JUN 10, 2002 CP=       5.548

 PAD RESPONSE AT END OF 2.375 DAYS
```

NODE	S1	S2	S3	SINT	SEQV
2710	515.60	-122.36	-198.37	713.97	679.17
2709	511.80	-110.60	-166.45	678.25	652.12

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF S3 ==========

SORT ON ITEM=S COMPONENT=3 ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:51 JUN 10, 2002 CP= 5.568

PAD RESPONSE AT END OF 2.375 DAYS

NODE	S1	S2	S3	SINT	SEQV
2817	100.46	-301.49	-1064.1	1164.5	1024.5
2818	221.66	-119.17	-764.24	985.89	867.25

NODE SORT REMOVED

==========
==========
==========
========== LCASE 8 ==========

LOAD CASE 8 IS LOAD STEP 8 SUBSTEP 1 COMPLEX= 0
FILE= Pad-Th.108
PAD RESPONSE AT END OF 3.125 DAYS

COPY LOAD CASE 8 FROM FILE TO DATABASE

ESEL FOR LABEL= TYPE FROM 2 TO 2 BY 1

1870 ELEMENTS (OF 8812 DEFINED) SELECTED BY ESEL COMMAND.

SELECT ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

2376 NODES (OF 10212 DEFINED) SELECTED FROM
1870 SELECTED ELEMENTS BY NELE COMMAND.

==========
========== MAXIMUM VALUES OF SX ==========

SORT ON ITEM=S COMPONENT=X ORDER= 0 KABS= 0 NMAX= 2

```
 SORT ON ITEM=S      COMPONENT=X      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.159

 PAD RESPONSE AT END OF 3.125 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
    1329   378.63      2.5135      387.76     -0.69684     4.7505     -9.6801
    1328   377.32     -0.85495     372.34     -0.71603     1.5022     -7.4075

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SX     ======================


 SORT ON ITEM=S      COMPONENT=X      ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.179

 PAD RESPONSE AT END OF 3.125 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
      72   -607.39     -17.575     -636.39     -2.4128     -2.2520     -0.11804
    1721   -607.21     -14.395     -636.28     -1.9613     -3.5141     -0.21571

 NODE SORT REMOVED

 ================================================================
 ============     MAXIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S      COMPONENT=Z      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
```

```
00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.189

PAD RESPONSE AT END OF 3.125 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
   1161    356.71      2.4254      392.24      0.63964     4.6526      -3.4673
   1203    362.12      1.9544      392.13      0.70822     4.6176      -5.0865

NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.209

 PAD RESPONSE AT END OF 3.125 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
     72    -607.39     -17.575     -636.39     -2.4128     -2.2520     -0.11804
   1721    -607.21     -14.395     -636.28     -1.9613     -3.5141     -0.21571


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.219

 PAD RESPONSE AT END OF 3.125 DAYS


   NODE    S1          S2          S3          SINT        SEQV
   2710    477.63      -122.97     -196.12     673.75      640.32
   2709    467.71      -105.01     -157.98     625.69      600.96

 NODE SORT REMOVED
```

```
 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S      COMPONENT=3      ORDER= 1   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=       6.239

 PAD RESPONSE AT END OF 3.125 DAYS


    NODE     S1          S2          S3          SINT        SEQV
    2817   88.972     -301.11     -1072.3      1161.2      1023.6
    2818   209.19     -119.12     -766.65      975.84      860.04

 NODE SORT REMOVED

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 9  ==============================


 LOAD CASE   9 IS LOAD STEP      9  SUBSTEP      1  COMPLEX=  0
 FILE= Pad-Th.109
 PAD RESPONSE AT END OF 4.125 DAYS


 COPY LOAD CASE   9 FROM FILE TO DATABASE

 ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

     1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

 SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     2376 NODES (OF    10212  DEFINED) SELECTED FROM
     1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============     MAXIMUM VALUES OF SX     ======================


 SORT ON ITEM=S      COMPONENT=X      ORDER= 0   KABS= 0   NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1
```

```
***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.830

PAD RESPONSE AT END OF 4.125 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
   1329    274.04      2.2920      280.92      -0.54402    4.2572      -10.195
   1328    273.06      -0.86175    266.98      -0.57739    1.4968      -7.9415

NODE SORT REMOVED

=====================================================================
============    MINIMUM VALUES OF SX    ======================


SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.850

PAD RESPONSE AT END OF 4.125 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
     72    -526.35     -26.905     -554.27     -4.4761     -4.1458     -0.24558
   1721    -526.00     -20.156     -554.43     -3.5558     -6.1887     -0.39967

NODE SORT REMOVED

=====================================================================
============    MAXIMUM VALUES OF SZ    ======================


SORT ON ITEM=S     COMPONENT=Z     ORDER= 0  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.860

PAD RESPONSE AT END OF 4.125 DAYS


   NODE    SX          SY          SZ          SXY         SYZ         SXZ
```

```
   1161   250.47      2.1606      285.18      0.67043      4.1315     -3.7826
   1203   256.10      1.6899      285.14      0.76665      4.0989     -5.4932

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.880

 PAD RESPONSE AT END OF 4.125 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
    1721  -526.00     -20.156     -554.43     -3.5558     -6.1887     -0.39967
      72  -526.35     -26.905     -554.27     -4.4761     -4.1458     -0.24558


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.900

 PAD RESPONSE AT END OF 4.125 DAYS


    NODE    S1          S2          S3          SINT        SEQV
    2710   368.01     -109.62     -173.80      541.81      512.74
    2709   356.66     -86.203     -130.55      487.20      466.61

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2
```

```
 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:52  JUN 10, 2002 CP=      6.910

 PAD RESPONSE AT END OF 4.125 DAYS


    NODE    S1          S2          S3          SINT        SEQV
    2817   48.024     -287.43     -1026.6      1074.6      952.29
    2818   159.43     -118.48     -738.00      897.43      795.74

 NODE SORT REMOVED

 ================================================================
 ================================================================
 ================================================================
 ======================  LCASE 10  ============================


 LOAD CASE  10 IS LOAD STEP    10  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.110
 PAD RESPONSE AT END OF 6.125 DAYS


 COPY LOAD CASE  10 FROM FILE TO DATABASE

 ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

     1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

 SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     2376 NODES (OF    10212  DEFINED) SELECTED FROM
     1870 SELECTED ELEMENTS BY NELE COMMAND.

 ================================================================
 ============    MAXIMUM VALUES OF SX    ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:53  JUN 10, 2002 CP=      7.501

 PAD RESPONSE AT END OF 6.125 DAYS
```

NODE	SX	SY	SZ	SXY	SYZ	SXZ
1341	129.66	0.75495	108.58	-0.43388	2.5589	-7.7237
1343	129.62	3.9284	126.18	-0.33960	4.8782	-12.454

NODE SORT REMOVED

==========
========== MINIMUM VALUES OF SX ==========

SORT ON ITEM=S COMPONENT=X ORDER= 1 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.521

PAD RESPONSE AT END OF 6.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
113	-464.18	-65.322	-497.51	-2.2908	-2.4172	1.8454
2289	-455.70	-49.645	-482.50	-3.8912	-1.4700	3.4823

NODE SORT REMOVED

==========
========== MAXIMUM VALUES OF SZ ==========

SORT ON ITEM=S COMPONENT=Z ORDER= 0 KABS= 0 NMAX= 2

SORT COMPLETED FOR 2 VALUES.

PRINT S NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 6.1 *****
ANSYS/Mechanical U
00245050 VERSION=INTEL NT 17:39:53 JUN 10, 2002 CP= 7.531

PAD RESPONSE AT END OF 6.125 DAYS

NODE	SX	SY	SZ	SXY	SYZ	SXZ
655	101.68	-10.626	133.27	2.0638	-4.1328	-6.8750
652	95.659	-10.239	133.22	1.5177	-4.0063	-4.6576

NODE SORT REMOVED

==========

```
============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S      COMPONENT=Z      ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:53  JUN 10, 2002 CP=       7.551

 PAD RESPONSE AT END OF 6.125 DAYS


    NODE     SX          SY          SZ          SXY         SYZ         SXZ
     113  -464.18     -65.322     -497.51     -2.2908     -2.4172      1.8454
     122  -445.21     -38.351     -484.09     0.92143     -3.9081      3.1527


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S      COMPONENT=1      ORDER= 0  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:53  JUN 10, 2002 CP=       7.571

 PAD RESPONSE AT END OF 6.125 DAYS


    NODE     S1          S2          S3          SINT        SEQV
    2710   150.35     -74.810     -121.40      271.75      251.71
    2709   143.59     -47.116     -73.982      217.57      205.46

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S      COMPONENT=3      ORDER= 1  KABS= 0  NMAX=        2

 SORT COMPLETED FOR        2 VALUES.

 PRINT S     NODAL SOLUTION PER NODE
1
```

```
***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:53  JUN 10, 2002 CP=      7.581

PAD RESPONSE AT END OF 6.125 DAYS


   NODE     S1          S2          S3          SINT        SEQV
   2817  -34.076     -255.72     -904.16      870.09      783.15
   2818   57.086     -119.66     -667.98      725.07      654.84

NODE SORT REMOVED

================================================================
================================================================
================================================================
======================  LCASE 11  ==============================


LOAD CASE  11 IS LOAD STEP    11  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.111
PAD RESPONSE AT END OF 7.875 DAYS


COPY LOAD CASE  11 FROM FILE TO DATABASE

ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

================================================================
============    MAXIMUM VALUES OF SX    ======================


SORT ON ITEM=S     COMPONENT=X     ORDER= 0  KABS= 0  NMAX=       2

SORT COMPLETED FOR       2 VALUES.

PRINT S    NODAL SOLUTION PER NODE
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
ANSYS/Mechanical U
00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.172

PAD RESPONSE AT END OF 7.875 DAYS


   NODE     SX          SY          SZ          SXY         SYZ         SXZ
    921   75.078     -12.149      32.169     -2.7544      6.6158     -8.0877
    922   74.989     -12.298      39.384     -2.9648      8.3553     -10.570
```

```
 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SX     ======================


 SORT ON ITEM=S     COMPONENT=X     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.192

 PAD RESPONSE AT END OF 7.875 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
     113  -442.93     -78.846     -469.82     -2.6757     -2.8598     2.3225
    2289  -432.40     -60.401     -450.85     -4.7709     -2.0009     4.3730

 NODE SORT REMOVED

 ================================================================
 ============     MAXIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.202

 PAD RESPONSE AT END OF 7.875 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
     638   29.023     -13.965      70.245      4.7007      1.6732     -7.8110
     639   22.974     -13.865      70.196      3.4784      1.9116     -5.4221

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF SZ     ======================


 SORT ON ITEM=S     COMPONENT=Z     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.
```

```
 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.222

 PAD RESPONSE AT END OF 7.875 DAYS


    NODE    SX          SY          SZ          SXY         SYZ         SXZ
     113  -442.93     -78.846     -469.82     -2.6757     -2.8598     2.3225
     122  -420.06     -47.578     -453.50     0.23857     -4.8796     3.9910


 ================================================================
 ============     MAXIMUM VALUES OF S1     ======================


 SORT ON ITEM=S     COMPONENT=1     ORDER= 0  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.232

 PAD RESPONSE AT END OF 7.875 DAYS


    NODE    S1          S2          S3          SINT        SEQV
     634   83.847      52.589     -24.371      108.22      96.465
     923   80.406      43.124     -11.053      91.459      79.655

 NODE SORT REMOVED

 ================================================================
 ============     MINIMUM VALUES OF S3     ======================


 SORT ON ITEM=S     COMPONENT=3     ORDER= 1  KABS= 0  NMAX=       2

 SORT COMPLETED FOR       2 VALUES.

 PRINT S    NODAL SOLUTION PER NODE
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1     *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:39:54  JUN 10, 2002 CP=      8.252

 PAD RESPONSE AT END OF 7.875 DAYS
```

NODE	S1	S2	S3	SINT	SEQV
2817	-85.372	-226.99	-803.27	717.90	658.61
2818	-7.9176	-116.65	-614.92	607.00	560.60

NODE SORT REMOVED

==========
==========
==========
==========

8812 ELEMENTS (OF 8812 DEFINED) SELECTED BY EALL COMMAND.

10212 NODES (OF 10212 DEFINED) SELECTED BY NALL COMMAND.

EXIT THE ANSYS POST1 DATABASE PROCESSOR

***** ROUTINE COMPLETED ***** CP = 8.252

EXIT ANSYS WITHOUT SAVING DATABASE

NUMBER OF WARNING MESSAGES ENCOUNTERED= 2
NUMBER OF ERROR MESSAGES ENCOUNTERED= 0

ANSYS RUN COMPLETED

Release 6.1 UP20020321 INTEL NT

Maximum Scratch Memory Used = 1035636 Words 3.951 MB

CP Time (sec) = 8.252 Time = 17:39:54
Elapsed Time (sec) = 10.000 Date = 06/10/2002

ENERCON SERVICES, INC.

Appendix FPad-TH to Calculation PGE-009-CALC-006

Originator: S. C. Tumminelli
Date: September 20, 2002
Revised: March 3, 2003

Appendix FPad-TH

This Appendix presents the ANSYS output file documenting the pad internal forces for the constrained model thermal stress analysis.

ANSYS/Mechanical U

```
*------------------------------------------------------------*
|                                                            |
|   W E L C O M E   T O   T H E   A N S Y S   P R O G R A M  |
|                                                            |
*------------------------------------------------------------*
```

```
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```
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```

```
                    Completing ANSYS Load Process.


        *****  ANSYS COMMAND LINE ARGUMENTS  *****
 INITIAL JOBNAME                = PAD-TH
 BATCH MODE REQUESTED           = LIST
 MEMORY REQUESTED (MB)          = 800
 DATABASE SIZE REQUESTED (MB) = 250

*** WARNING ***                          CP=      0.170   TIME= 17:41:29
Use of the -M switch is no longer recommended for normal ANSYS use.
ANSYS now dynamically allocates memory as needed.  Only use the -M
 switch if you are certain that you need to do so.

PARAMETER STATUS-            (    1 PARAMETERS DEFINED)
                  (INCLUDING      1 INTERNAL PARAMETERS)

00245050          VERSION=INTEL NT        RELEASE= 6.1      UP20020321
CURRENT JOBNAME=PAD-TH  17:41:29  JUN 10, 2002 CP=      0.170

    1  /com,
    2  /COM
    3  /com
    4  /com,      This routine processes load results data for the
    5  /com,    evaluation of pad internal forces and moments
    6  /com
    7  /com ************************************************************
    8  /com ************************************************************
    9  /com
   10  /file,Pad-Th
   11  resume
   12  /HEADER,ON,OFF,OFF,OFF,ON,OFF
   13  /post1
   14  eall
   15  nall
   16  /com
   17  /com ************************************************************
   18  /com ********************  LOAD CASE 1 ************************
   19  lcfile,1
   20  lcase,1
   21  /COM
   22  /COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
   23  /com
   24  /com       Select all nodes in pad only
   25  /com
   26  esel,type,2
   27  nelem
   28  /com
   29  /com       select strip Z direction x = 0 to 204 Lines C to D
   30  /com
   31  nsel,r,loc,x,-0.1,204.1
   32  enode,1
   33  /com
   34  /com       internal forces at Z = 0.0     LINE 5 1/2
   35  /com
```

```
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com      next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
```

```
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com       next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 2 ************************
lcfile,2
lcase,2
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
```

```
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com       next strip x = 204 to 408 Lines D to E
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
```

```
/com
/com      select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com      next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com      next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 3 ************************
lcfile,3
```

```
lcase,3
/COM
/COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
```

```
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com       next strip z = 510 to 630 Lines 8 to 10
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
```

```
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com ************************************************************
/com ********************  LOAD CASE 4 ************************
lcfile,4
lcase,4
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com       next strip x = 204 to 408 Lines D to E
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
```

```
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com      next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com      next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com      next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
```

```
/com       select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 5 ************************
lcfile,5
lcase,5
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com       next strip x = 204 to 408 Lines D to E
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
```

```
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
```

```
/com      next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 6 ************************
lcfile,6
lcase,6
/COM
/COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
```

```
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
```

```
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com      next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 7 ************************
lcfile,7
lcase,7
/COM
/COM      SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
```

```
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
```

```
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com       next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 8 ************************
lcfile,8
lcase,8
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
```

```
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com      next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
```

```
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com       next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
fsum
eall
nall
/com
/com ********************************************************
/com ********************  LOAD CASE 9 ************************
lcfile,9
lcase,9
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
```

```
/com      select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com      next strip x = 204 to 408 Lines D to E
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com      internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM      SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com      next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
```

```
1062  /com      select strip x direction z = 102 to 306
1063  /com
1064  nsel,r,loc,z,101.9,306.1
1065  enode,1
1066  /com
1067  /com      internal forces at x = 0.0     LINE C
1068  /com
1069  nsel,r,loc,x,-0.1,0.1
1070  spoint,,0.0,-48.0,204.0
1071  fsum
1072  nelem
1073  /com
1074  /com      next strip z = 306 to 510 Lines 7 to 8
1075  /com
1076  /com
1077  /com      Select all nodes in pad only
1078  /com
1079  esel,type,2
1080  nelem
1081  /com
1082  /com      select strip x direction z = 306 to 510
1083  /com
1084  nsel,r,loc,z,305.9,510.1
1085  enode,1
1086  /com
1087  /com      internal forces at x = 0.0     LINE C
1088  /com
1089  nsel,r,loc,x,-0.1,0.1
1090  spoint,,0.0,-48.0,408.0
1091  fsum
1092  nelem
1093  /com
1094  /com      next strip z = 510 to 630 Lines 8 to 10
1095  /com
1096  /com
1097  /com      Select all nodes in pad only
1098  /com
1099  esel,type,2
1100  nelem
1101  /com
1102  /com      select strip x direction z = 510 to 630
1103  /com
1104  nsel,r,loc,z,509.9,630.1
1105  enode,1
1106  /com
1107  /com      internal forces at x = 0.0     LINE C
1108  /com
1109  nsel,r,loc,x,-0.1,0.1
1110  spoint,,0.0,-48.0,570.0
1111  fsum
1112  eall
1113  nall
1114  /com
1115  /com ************************************************************
1116  /com ********************  LOAD CASE 10 ************************
1117  lcfile,10
1118  lcase,10
```

```
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com       next strip x = 204 to 408 Lines D to E
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/COM       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
```

```
/com      next strip z = 102 to 306 Lines 6 to 7
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com      next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com      next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com      Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com      select strip x direction z = 510 to 630
/com
nsel,r,loc,z,509.9,630.1
enode,1
/com
/com      internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,570.0
```

```
fsum
eall
nall
/com
/com ************************************************************
/com ********************  LOAD CASE 11 ************************
lcfile,11
lcase,11
/COM
/COM       SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction x = 0 to 204 Lines C to D
/com
nsel,r,loc,x,-0.1,204.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,102,-48.0,0.0
fsum
/com       next strip x = 204 to 408 Lines D to E
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip Z direction
/com
nsel,r,loc,x,203.9,408.1
enode,1
/com
/com       internal forces at Z = 0.0     LINE 5 1/2
/com
nsel,r,loc,z,-0.1,0.1
spoint,,306,-48.0,0.0
fsum
/com ************************************************************
/com ************************************************************
/com
/com       SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS
/COM
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6
/com
nsel,r,loc,z,-0.1,102.1
enode,1
```

```
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,51.0
fsum
nelem
/com
/com       next strip z = 102 to 306 Lines 6 to 7
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 102 to 306
/com
nsel,r,loc,z,101.9,306.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,204.0
fsum
nelem
/com
/com       next strip z = 306 to 510 Lines 7 to 8
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 306 to 510
/com
nsel,r,loc,z,305.9,510.1
enode,1
/com
/com       internal forces at x = 0.0     LINE C
/com
nsel,r,loc,x,-0.1,0.1
spoint,,0.0,-48.0,408.0
fsum
nelem
/com
/com       next strip z = 510 to 630 Lines 8 to 10
/com
/com
/com       Select all nodes in pad only
/com
esel,type,2
nelem
/com
/com       select strip x direction z = 510 to 630
```

```
 1347  /com
 1348  nsel,r,loc,z,509.9,630.1
 1349  enode,1
 1350  /com
 1351  /com      internal forces at x = 0.0    LINE C
 1352  /com
 1353  nsel,r,loc,x,-0.1,0.1
 1354  spoint,,0.0,-48.0,570.0
 1355  fsum
 1356  eall
 1357  nall
 1358  /com
 1359  /com ************************************************************
 1360  /com ************************************************************
 1361  fini
 1362  /exit,nosave
 1363
 1364
 1365
 1366
 1367

RUN SETUP PROCEDURE FROM FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans

/INPUT FILE= C:\Program Files\Ansys Inc\ANSYS61\docu\start61.ans  LINE=       0


 This routine processes load results data for the
   evaluation of pad internal forces and moments

************************************************************
************************************************************


CURRENT JOBNAME REDEFINED AS Pad-Th

RESUME ANSYS DATA FROM FILE NAME=Pad-Th.db

*** ANSYS GLOBAL STATUS ***

TITLE = DELTA T 6.125 TO 7.875 DAYS
ANALYSIS TYPE =  STATIC (STEADY-STATE)
NUMBER OF ELEMENT TYPES =      5
   8812 ELEMENTS CURRENTLY SELECTED.  MAX ELEMENT NUMBER =     9341
  10212 NODES CURRENTLY SELECTED.     MAX NODE NUMBER =       10212
    166 KEYPOINTS CURRENTLY SELECTED. MAX KEYPOINT NUMBER =     166
    339 LINES CURRENTLY SELECTED.     MAX LINE NUMBER =         339
      2 AREAS CURRENTLY SELECTED.     MAX AREA NUMBER =         224
     48 VOLUMES CURRENTLY SELECTED.   MAX VOL. NUMBER =          48
     22 COMPONENTS CURRENTLY DEFINED
MAXIMUM LINEAR PROPERTY NUMBER        =      12
MAXIMUM REAL CONSTANT SET NUMBER      =       1
ACTIVE COORDINATE SYSTEM              =       0  (CARTESIAN)
MAXIMUM COUPLED D.O.F. SET NUMBER     =     367
NUMBER OF SPECIFIED CONSTRAINTS       =    4657
CURRENT LOAD CASE =       0 OF       0
```

```
 LOAD SET    =       11
 SUBSTEP     =        1
 TIME/FREQ   =    11.000

 INITIAL JOBNAME = PAD-TH
 CURRENT JOBNAME = Pad-Th


 PRINT HEADER
 DO NOT PRINT SUBTITLE(S)
 DO NOT PRINT LOAD STEP ID
 DO NOT PRINT NOTE LINE(S)
 PRINT COLUMN HEADER LABELS
 DO NOT PRINT REPORT TOTALS
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  RELEASE 6.1      *****
 ANSYS/Mechanical U
 00245050          VERSION=INTEL NT      17:41:30  JUN 10, 2002 CP=      0.671

 DELTA T 6.125 TO 7.875 DAYS


          ***** ANSYS RESULTS INTERPRETATION (POST1) *****

 *** WARNING ***                         CP=      0.671   TIME= 17:41:30
 The current solution may have been produced using different model or
 boundary condition data than is currently stored.  POST1 results may
  be erroneous unless you perform a new solution using the stored data.

 *** NOTE ***                            CP=      0.671   TIME= 17:41:30
 Reading results into the database (SET command) will update the current
 displacement and force boundary conditions in the database with the
 values from the results file for that load set.  Note that any
 subsequent solutions will use these values unless action is taken to
  either SAVE the current values or not overwrite them (/EXIT,NOSAVE).

     8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

    10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

 ************************************************************
 ********************  LOAD CASE 1 ************************

 LOAD CASE   1 IS LOAD STEP     1  SUBSTEP     1  COMPLEX=  0
 FILE= Pad-Th.101
 PAD RESPONSE AT END OF 0.25 DAYS


 COPY LOAD CASE   1 FROM FILE TO DATABASE

 SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

 Select all nodes in pad only


 ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1
```

```
    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =    685.3717
 FY   =   -18754.77
 FZ   =   -2078832.
 MX   =   -1793625.
 MY   =   -853710.9
 MZ   =   -55366.15

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction
```

```
RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN  203.90      AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000       -48.0000        0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =    1360.950
 FY   =   -22048.08
 FZ   =   -1982198.
 MX   =    1003623.
 MY   =   -1957071.
 MZ   =   -210021.9

SUMMATION POINT=  306.00      -48.000       0.0000
**********************************************************
**********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

      528  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.
```

```
SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -905053.1
 FY   =  -4617.376
 FZ   =   175.4800
 MX   =   11121.45
 MY   =   28390.36
 MZ   =   109421.3

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
```

```
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1781997.
 FY   =  -10354.25
 FZ   =  -141.0585
 MX   =   82217.06
 MY   =   841364.6
 MZ   =  -502375.4

SUMMATION POINT=  0.0000     -48.000      204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C
```

```
RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1728982.
 FY   =  -12856.76
 FZ   =  -5521.750
 MX   =   26444.79
 MY   =   938093.9
 MZ   =  -2079998.

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
```

```
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -987290.4
 FY   =   -6861.447
 FZ   =   -3867.426
 MX   =   -44663.73
 MY   =    557030.9
 MZ   =   -2053499.

SUMMATION POINT=  0.0000      -48.000       570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*************************************************************
********************  LOAD CASE 2 ************************

LOAD CASE   2 IS LOAD STEP     2  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.102
PAD RESPONSE AT END OF 0.50 DAYS


COPY LOAD CASE   2 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.
```

```
internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   390.7760
 FY   =  -18871.17
 FZ   =  -3128490.
 MX   =  0.4580134E+08
 MY   =  -841518.0
 MZ   =  -56356.21

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X      BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
```

```
MOMENT SUMMATION LOCATION=   306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =    731.6981
 FY   =   -21931.68
 FZ   =   -3005009.
 MX   =   0.4706083E+08
 MY   =   -4346383.
 MZ   =   -203930.3

SUMMATION POINT=  306.00     -48.000      0.0000
*********************************************************
*********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF   . 10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=       0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1403379.
 FY   =  -4698.368
 FZ   =   85.16877
 MX   =   11595.81
```

```
 MY  =   28039.29
 MZ  = -0.2336882E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -2780583.
 FY  =  -10514.51
 FZ  =  -898.7203
 MX  =   88006.16
 MY  =   788154.5
 MZ  = -0.4745424E+08
```

```
SUMMATION POINT=  0.0000      -48.000       204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000       -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2732894.
 FY   =  -13007.33
 FZ   =  -7274.508
 MX   =   43815.04
 MY   =   887889.5
 MZ   = -0.4895788E+08

SUMMATION POINT=  0.0000      -48.000       408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```

```
     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1557871.
 FY   =  -6469.623
 FZ   =  -5070.177
 MX   =  -33749.52
 MY   =   1846569.
 MZ   = -0.2840759E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.
```

```
************************************************************
********************  LOAD CASE 3 ************************

LOAD CASE   3 IS LOAD STEP     3  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.103
PAD RESPONSE AT END OF 0.625 DAYS


COPY LOAD CASE   3 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =    158.7429
 FY   =   -18977.20
 FZ   =   -3537558.
 MX   =   0.6262547E+08
 MY   =   -820888.8
 MZ   =   -54365.53

SUMMATION POINT=  102.00     -48.000      0.0000
```

```
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =    276.0155
 FY   =   -21825.65
 FZ   =   -3405193.
 MX   =   0.6325457E+08
 MY   =   -5260976.
 MZ   =   -191896.0

SUMMATION POINT=  306.00     -48.000      0.0000
**********************************************************
**********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1
```

```
    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1587648.
 FY   =  -4785.072
 FZ   =   12.11722
 MX   =   11108.36
 MY   =   27252.13
 MZ   = -0.3179842E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```

```
    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -3151194.
 FY   =  -10677.98
 FZ   =  -1517.810
 MX   =   84311.30
 MY   =   727314.9
 MZ   = -0.6428689E+08

SUMMATION POINT=  0.0000     -48.000      204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.
```

```
select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -3109534.
 FY   =  -13119.31
 FZ   =  -8627.524
 MX   =   37107.79
 MY   =   803540.0
 MZ   = -0.6568244E+08

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630
```

```
RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -1773660.
 FY   =   -6107.478
 FZ   =   -5859.209
 MX   =   -40359.07
 MY   =    2364694.
 MZ   = -0.3772636E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

************************************************************
********************  LOAD CASE 4 ************************

LOAD CASE   4 IS LOAD STEP     4  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.104
PAD RESPONSE AT END OF 1.125 DAYS


COPY LOAD CASE   4 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT  .   ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```

```
    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -243.4155
 FY   =   -19110.97
 FZ   =   -4816988.
 MX   =   0.1212889E+09
 MY   =   -821991.1
 MZ   =   -60377.64

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.
```

```
SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -647.9639
 FY   =  -21691.88
 FZ   =  -4648875.
 MX   =  0.1198743E+09
 MY   =  -8277268.
 MZ   =  -196093.2

SUMMATION POINT=  306.00     -48.000      0.0000
*************************************************************
*************************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C
```

```
RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2189505.
 FY   =   -4856.138
 FZ   =   -108.9613
 MX   =    13205.23
 MY   =    27606.09
 MZ   = -0.6020248E+08

SUMMATION POINT=  0.0000      -48.000       51.000

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF     10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  101.90      AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

      924  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
```

```
  KABS=  0.  TOLERANCE= 0.200000E-08

       84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4356669.
 FY   =  -10831.82
 FZ   =  -2534.224
 MX   =   105772.7
 MY   =   683842.3
 MZ   = -0.1211255E+09

SUMMATION POINT=  0.0000     -48.000      204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

       84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.
```

```
NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -4319608.
 FY   =   -13319.43
 FZ   =   -11079.25
 MX   =    93364.33
 MY   =    791920.5
 MZ   = -0.1225239E+09

SUMMATION POINT=  0.0000      -48.000       408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF     10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  509.90      AND    630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        570.000
```

```
***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2460584.
 FY   =  -5682.452
 FZ   =  -7727.707
 MX   =  -512.6936
 MY   =   3977731.
 MZ   = -0.6968491E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
********************  LOAD CASE 5 ************************

LOAD CASE   5 IS LOAD STEP     5  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.105
PAD RESPONSE AT END OF 1.625 DAYS


COPY LOAD CASE   5 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08
```

```
     72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -524.9083
 FY   =  -19733.65
 FZ   =  -5390017.
 MX   =  0.1507829E+09
 MY   =  -818964.5
 MZ   =  -64473.81

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

     72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1179.093
 FY   =  -22181.06
 FZ   =  -5205515.
```

```
 MX   =  0.1481727E+09
 MY   =  -9671510.
 MZ   =  -200714.6

SUMMATION POINT=  306.00      -48.000       0.0000
*********************************************************
*********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=         0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2463210.
 FY   =  -7702.383
 FZ   =  -196.8429
 MX   =   14463.50
 MY   =   25297.45
 MZ   = -0.7428222E+08

SUMMATION POINT=  0.0000      -48.000       51.000

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```

```
     528 NODES (OF     10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4907754.
 FY   =  -15931.57
 FZ   =  -3434.829
 MX   =   47920.80
 MY   =   594391.8
 MZ   = -0.1491346E+09

SUMMATION POINT=  0.0000     -48.000       204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF     10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.
```

```
next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4877105.
 FY   =  -14180.13
 FZ   =  -12505.96
 MX   =   105434.2
 MY   =   726579.0
 MZ   = -0.1500323E+09

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10
```

```
Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2777689.
 FY   =  -5870.821
 FZ   =  -8738.550
 MX   =   37730.17
 MY   =   4673086.
 MZ   = -0.8517045E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
*******************  LOAD CASE 6 ************************

LOAD CASE   6 IS LOAD STEP     6  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.106
PAD RESPONSE AT END OF 2.125 DAYS
```

```
COPY LOAD CASE   6 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1365.336
 FY   =  -24521.52
 FZ   =  -5574946.
 MX   =  0.1629743E+09
 MY   =  -799342.7
 MZ   =   186253.6

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1
```

```
    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1715.559
 FY   =  -22923.92
 FZ   =  -5388926.
 MX   =  0.1591296E+09
 MY   = -0.1008126E+08
 MZ   =  -179334.2

SUMMATION POINT=  306.00     -48.000      0.0000
**********************************************************
**********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.
```

```
select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2552628.
 FY   =  -13914.58
 FZ   =  -742.3441
 MX   =  -72632.22
 MY   =   52230.06
 MZ   = -0.7997465E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306
```

```
RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  101.90      AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -5092094.
 FY   =   -17642.57
 FZ   =   -4456.925
 MX   =   -54690.57
 MY   =    402356.4
 MZ   = -0.1593288E+09

SUMMATION POINT=  0.0000      -48.000       204.00

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  305.90      AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05
```

```
     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -5070757.
 FY  =  -14698.57
 FZ  =  -13491.10
 MX  =   122043.3
 MY  =   631561.0
 MZ  = -0.1598777E+09

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.
```

```
SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2889199.
 FY   =  -6067.974
 FZ   =  -9364.608
 MX   =   61775.19
 MY   =   4832610.
 MZ   = -0.9073219E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
********************  LOAD CASE 7 ************************

LOAD CASE   7 IS LOAD STEP     7  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.107
PAD RESPONSE AT END OF 2.375 DAYS


COPY LOAD CASE   7 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D
```

```
RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=      0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1922.139
 FY   =  -28239.31
 FZ   =  -5581821.
 MX   =  0.1664374E+09
 MY   =  -768166.7
 MZ   =   336533.5

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.
```

```
internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2061.708
 FY   =   -23676.65
 FZ   =   -5399212.
 MX   =   0.1617746E+09
 MY   =  -0.1010200E+08
 MZ   =   -151830.3

SUMMATION POINT=  306.00     -48.000      0.0000
*********************************************************
*********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.
```

```
NODE FOR MOMENT SUMMATION=       0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2559557.
 FY   =  -17981.62
 FZ   =  -1014.844
 MX   =  -109311.3
 MY   =   58254.54
 MZ   = -0.8157406E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=       0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000
```

```
***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -5110869.
 FY  =  -19556.80
 FZ  =  -5262.470
 MX  =  -177958.0
 MY  =   229042.4
 MZ  = -0.1615784E+09

SUMMATION POINT=  0.0000     -48.000      204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=       0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -5098245.
```

```
 FY   =  -15195.62
 FZ   =  -14026.35
 MX   =   115491.5
 MY   =   534784.8
 MZ   = -0.1617183E+09

SUMMATION POINT=  0.0000      -48.000       408.00

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF     10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  509.90      AND    630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2906518.
 FY   =  -6279.599
 FZ   =  -9607.234
 MX   =   68252.63
```

```
 MY  =    4813275.
 MZ  = -0.9175070E+08

SUMMATION POINT=  0.0000      -48.000       570.00

    8812  ELEMENTS (OF      8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF     10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
********************  LOAD CASE 8 ************************

LOAD CASE   8 IS LOAD STEP      8  SUBSTEP      1  COMPLEX=  0
FILE= Pad-Th.108
PAD RESPONSE AT END OF 3.125 DAYS


COPY LOAD CASE   8 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    102.000       -48.0000        0.00000
```

```
***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2910.421
 FY   =  -35574.50
 FZ   =  -5456216.
 MX   =  0.1638880E+09
 MY   =  -781232.9
 MZ   =   771666.5

SUMMATION POINT=  102.00      -48.000       0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2470.590
 FY   =  -24446.26
 FZ   =  -5281066.
 MX   =  0.1583079E+09
 MY   =  -9688629.
 MZ   =  -124623.9

SUMMATION POINT=  306.00      -48.000       0.0000
************************************************************
```

```
************************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2498078.
 FY   =   -24933.85
 FZ   =   -1684.471
 MX   =   -258755.0
 MY   =    113263.9
 MZ   = -0.8009187E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7
```

```
Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4993234.
 FY   =  -21117.69
 FZ   =  -6137.529
 MX   =  -278572.7
 MY   =   34683.97
 MZ   = -0.1572836E+09

SUMMATION POINT=  0.0000     -48.000      204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only
```

```
ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4990939.
 FY   =  -15671.72
 FZ   =  -14777.20
 MX   =   116584.3
 MY   =   389433.9
 MZ   = -0.1570558E+09

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1
```

```
    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2847986.
 FY   =  -6503.806
 FZ   =  -9959.531
 MX   =   82030.65
 MY   =   4494464.
 MZ   = -0.8915363E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*************************************************************
********************  LOAD CASE 9 ************************

LOAD CASE   9 IS LOAD STEP     9  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.109
PAD RESPONSE AT END OF 4.125 DAYS


COPY LOAD CASE   9 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS
```

```
Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -3883.385
 FY   =  -44127.84
 FZ   =  -4973948.
 MX   =  0.1442318E+09
 MY   =  -806688.9
 MZ   =   1309411.

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
```

```
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN  203.90      AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000       -48.0000        0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2649.543
 FY   =   -25231.33
 FZ   =   -4816150.
 MX   =   0.1382323E+09
 MY   =   -8451668.
 MZ   =   -89345.15

SUMMATION POINT=  306.00      -48.000       0.0000
**********************************************************
**********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN-0.10000      AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05
```

```
     528  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000       -48.0000        51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2266808.
 FY   =  -32974.67
 FZ   =  -2406.895
 MX   =  -446786.2
 MY   =   176996.0
 MZ   = -0.7053661E+08

SUMMATION POINT=  0.0000      -48.000       51.000

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF     10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  101.90      AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.
```

```
SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000       -48.0000        204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4535864.
 FY   =  -22679.11
 FZ   =  -6806.786
 MX   =  -392393.5
 MY   =  -166999.8
 MZ   = -0.1367201E+09

SUMMATION POINT=  0.0000      -48.000       204.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  305.90      AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
```

```
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000       -48.0000        408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4544699.
 FY   =  -16102.96
 FZ   =  -15017.28
 MX   =   88315.20
 MY   =   198057.0
 MZ   = -0.1360651E+09

SUMMATION POINT=  0.0000      -48.000       408.00

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  509.90      AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C
```

```
RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2597018.
 FY   =  -6758.765
 FZ   =  -9819.837
 MX   =   74690.82
 MY   =   3723393.
 MZ   = -0.7730728E+08

SUMMATION POINT=  0.0000      -48.000       570.00

    8812  ELEMENTS (OF      8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF     10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
********************  LOAD CASE 10 ************************

LOAD CASE  10 IS LOAD STEP     10  SUBSTEP      1  COMPLEX=  0
FILE= Pad-Th.110
PAD RESPONSE AT END OF 6.125 DAYS


COPY LOAD CASE  10 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.
```

```
    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -4773.761
 FY   =  -54024.83
 FZ   =  -3967223.
 MX   =  0.9939197E+08
 MY   =  -847573.6
 MZ   =   1963902.

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08
```

```
     72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    306.000       -48.0000        0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2455.726
 FY   =   -26040.45
 FZ   =   -3841025.
 MX   =   0.9372266E+08
 MY   =   -6018547.
 MZ   =   -41127.02

SUMMATION POINT=  306.00      -48.000       0.0000
*************************************************************
*************************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -1787383.
```

```
 FY   =  -42356.65
 FZ   =  -3157.765
 MX   =  -677514.8
 MY   =   249736.0
 MZ   = -0.4917731E+08

SUMMATION POINT=  0.0000      -48.000       51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  101.90     AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -3581968.
 FY   =  -24255.02
 FZ   =  -7144.025
 MX   =  -528132.8
```

```
 MY  =  -381041.7
 MZ  = -0.9238722E+08

SUMMATION POINT=  0.0000      -48.000       204.00

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF     10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  305.90      AND    510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        408.000

***** SUMMATION OF TOTAL     FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -3603165.
 FY  =  -16464.57
 FZ  =  -14426.09
 MX  =   12851.45
 MY  =  -64807.76
 MZ  = -0.9120650E+08
```

```
SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 510 to 630


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  509.90     AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -2064483.
 FY   =  -7060.544
 FZ   =  -8893.246
 MX   =   33287.90
 MY   =   2285622.
 MZ   = -0.5192266E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.
```

```
   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

*********************************************************
********************  LOAD CASE 11 ***********************

LOAD CASE  11 IS LOAD STEP    11  SUBSTEP     1  COMPLEX=  0
FILE= Pad-Th.111
PAD RESPONSE AT END OF 7.875 DAYS


COPY LOAD CASE  11 FROM FILE TO DATABASE

SECTION THE PAD IN TO 2 NORTH-SOUTH Z-DIRECTION STRIPS

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction x = 0 to 204 Lines C to D


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND   204.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=       0
MOMENT SUMMATION LOCATION=   102.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -5463.597
 FY   =  -61916.31
 FZ   =  -3212272.
 MX   =  0.6658143E+08
 MY   =  -885503.0
```

```
 MZ  =   2458799.

SUMMATION POINT=  102.00     -48.000      0.0000
next strip x = 204 to 408 Lines D to E

Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip Z direction


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN  203.90     AND   408.10
  KABS=  0.  TOLERANCE= 0.204200E-05

    1296  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

    1020 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
    1296 SELECTED NODES BY  ENOD COMMAND.

internal forces at Z = 0.0 LINE 5 1/2


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      72  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   306.000      -48.0000       0.00000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX  =  -2234.550
 FY  =  -26846.54
 FZ  =  -3109565.
 MX  =  0.6089658E+08
 MY  =  -4370990.
 MZ  =   9969.583

SUMMATION POINT=  306.00     -48.000      0.0000
*********************************************************
*********************************************************

SECTION THE PAD IN TO 4 EAST-WEST X-DIRECTION STRIPS

Select all nodes in pad only
```

```
ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 0.0 to 102 Lines 5 1/2 to 6


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN-0.10000     AND   102.10
  KABS=  0.  TOLERANCE= 0.102200E-05

     528  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     360 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     528 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      48  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       51.0000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1434887.
 FY   =  -49192.79
 FZ   =  -3695.422
 MX   =  -836373.7
 MY   =   310833.8
 MZ   = -0.3380566E+08

SUMMATION POINT=  0.0000     -48.000      51.000

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     528 NODES (OF    10212  DEFINED) SELECTED FROM
     360 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 102 to 306 Lines 6 to 7


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1
```

```
    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF     10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 102 to 306


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  101.90      AND   306.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF      8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF     10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=    0.00000       -48.0000        204.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2881157.
 FY   =   -25813.93
 FZ   =   -7364.413
 MX   =   -663372.1
 MY   =   -571238.5
 MZ   = -0.6018287E+08

SUMMATION POINT=  0.0000      -48.000       204.00

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF     10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 306 to 510 Lines 7 to 8


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM        2 TO        2 BY        1

    1870  ELEMENTS (OF      8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT       ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.
```

```
    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.

select strip x direction z = 306 to 510


RESELECT     FOR ITEM=LOC  COMPONENT=Z     BETWEEN  305.90     AND   510.10
  KABS=  0.  TOLERANCE= 0.204200E-05

     924  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT      ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     720 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     924 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT     FOR ITEM=LOC  COMPONENT=X     BETWEEN-0.10000     AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      84  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       408.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =   -2912161.
 FY   =   -16855.38
 FZ   =   -13648.61
 MX   =   -66062.55
 MY   =   -249754.7
 MZ   = -0.5843041E+08

SUMMATION POINT=  0.0000     -48.000      408.00

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

     924 NODES (OF    10212  DEFINED) SELECTED FROM
     720 SELECTED ELEMENTS BY NELE COMMAND.

next strip z = 510 to 630 Lines 8 to 10


Select all nodes in pad only


ESEL  FOR LABEL= TYPE  FROM       2 TO       2 BY       1

    1870  ELEMENTS (OF     8812  DEFINED) SELECTED BY  ESEL  COMMAND.

SELECT      ALL NODES HAVING ANY ELEMENT IN ELEMENT SET.

    2376 NODES (OF    10212  DEFINED) SELECTED FROM
    1870 SELECTED ELEMENTS BY NELE COMMAND.
```

```
select strip x direction z = 510 to 630


RESELECT      FOR ITEM=LOC  COMPONENT=Z      BETWEEN  509.90      AND   630.10
  KABS=  0.  TOLERANCE= 0.120200E-05

     396  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

SELECT       ONLY ELEMENTS COMPLETELY CONTAINED WITHIN NODE SET.

     240 ELEMENTS (OF     8812  DEFINED) SELECTED FROM
     396 SELECTED NODES BY  ENOD COMMAND.

internal forces at x = 0.0 LINE C


RESELECT      FOR ITEM=LOC  COMPONENT=X      BETWEEN-0.10000      AND  0.10000
  KABS=  0.  TOLERANCE= 0.200000E-08

      36  NODES (OF    10212  DEFINED) SELECTED BY  NSEL  COMMAND.

NODE FOR MOMENT SUMMATION=        0
MOMENT SUMMATION LOCATION=   0.00000      -48.0000       570.000

***** SUMMATION OF TOTAL    FORCES AND MOMENTS IN GLOBAL COORDINATES *****
 FX   =  -1673170.
 FY   =  -7335.125
 FZ   =  -7938.123
 MX   =  -12937.58
 MY   =   1361591.
 MZ   = -0.3327965E+08

SUMMATION POINT=  0.0000     -48.000      570.00

    8812  ELEMENTS (OF     8812  DEFINED) SELECTED BY  EALL  COMMAND.

   10212  NODES (OF    10212  DEFINED) SELECTED BY NALL  COMMAND.

************************************************************
************************************************************

EXIT THE ANSYS POST1 DATABASE PROCESSOR


***** ROUTINE COMPLETED *****  CP =         7.801


EXIT ANSYS WITHOUT SAVING DATABASE


NUMBER OF WARNING MESSAGES ENCOUNTERED=          2
NUMBER OF ERROR   MESSAGES ENCOUNTERED=          0

*------------------------------------------------------------------------------*
```


```
|                                                                              |
|                          ANSYS RUN COMPLETED                                 |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|           Release 6.1            UP20020321          INTEL NT                |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|  Maximum Scratch Memory Used       =     1025420 Words        3.912 MB      |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|       CP Time      (sec) =          7.801       Time  =  17:41:38            |
|       Elapsed Time (sec) =         10.000       Date  =  06/10/2002          |
|                                                                              |
*------------------------------------------------------------------------------*
```