Table 17 Input data for the PANDA2 processor MAINSETUP (allenflat.OPT)

```
      n          $ Do you want a tutorial session and tutorial output?
  -1000.00       $ Resultant (e.g. lb/in) normal to the plane of screen, Nx( 1)
  0.000000       $ Resultant (e.g. lb/in) in the plane of the screen,    Ny( 1)
  0.000000       $ In-plane shear in load set A,                  Nxy( 1)
      N          $ Does the axial load vary in the L2 direction?
  0.000000       $ Applied axial moment resultant (e.g. in-lb/in), Mx( 1)
  0.000000       $ Applied hoop moment resultant (e.g. in-lb/in), My( 1)
      Y          $ Want to include effect of transverse shear deformation?
         0       $ IQUICK = quick analysis indicator (0 or 1)
      Y          $ Do you want to vary M for minimum local buckling load?
      N          $ Do you want to choose a starting M for local buckling?
      Y          $ Do you want to perform a "low-axial-wavenumber" search?
  0.999000       $ Factor of safety for general instability, FSGEN( 1)
  0.999000       $ Factor of safety for panel (between rings) instability,FSPAN(1)
 0.1000000       $ Minimum load factor for local buckling, FSLOC(1)
  1.000000       $ Minimum load factor for stiffener buckling (Type H), FSBSTR( 1)
  1.000000       $ Factor of safety for stress, FSSTR( 1)
      n          $ Do you want "flat skin" discretized module for local buckling?
      n          $ Do you want to skip the KOITER local postbuckling analysis?
      n          $ Do you want wide-column buckling to constrain the design?
         0       $ Resultant (e.g. lb/in) normal to the plane of screen, Nx0( 1)
         0       $ Resultant (e.g. lb/in) in the plane of the screen,    Ny0( 1)
         0       $ Axial load applied along the (0=neutral plane), (1=panel skin)
  0.000000       $ Uniform applied pressure [positive upward. See H(elp)], p( 1)
  0.000000       $ Out-of-roundness, Wimpg1=(Max.diameter-Min.diam)/4, Wimpg1( 1)
  0.000000       $ Initial buckling modal general imperfection amplitude,Wimpg2(1)
  0.000000       $ Initial buckling modal inter-ring imperfection ampltude,Wpan(1)
 0.1000000E-06   $ Initial local imperfection amplitude (must be positive),Wloc(1)
      Y          $ Do you want PANDA2 to change imperfection amplitudes(1)
    9.7793       $ Axial halfwavelength of typical general buckling mode,AXLWAV(1)
      Y          $ Do you want PANDA2 to find the general imperfection shape?( 1)
  1.000000       $ Maximum allowable average axial strain (type H for HELP)( 1)
      N          $ Is there any thermal "loading" in this load set (Y/N)?
      Y          $ Do you want a "complete" analysis (type H for "Help")?
      N          $ Want to provide another load set ?
      N          $ Do you want to impose minimum TOTAL thickness of any segment?
      N          $ Do you want to impose maximum TOTAL thickness of any segment?
      N          $ Do you want to impose minimum TOTAL thickness of any segment?
      N          $ Do you want to impose maximum TOTAL thickness of any segment?
      N          $ Use reduced effective stiffness in panel skin (H(elp), Y or N)?
         2       $ NPRINT= output index (-1=min. 0=good, 1=ok, 2=more, 3=too much)
         1       $ Index for type of shell theory (0 or 1 or 2), ISAND
      Y          $ Does the postbuckling axial wavelength of local buckles change?
      Y          $ Want to suppress general buckling mode with many axial waves?
      N          $ Do you want to double-check PANDA-type eigenvalues
         1       $ Choose (0=transverse inextensional; 1=transverse extensional)
         1       $ Choose ICONSV = -1 or 0 or 1 or H(elp), ICONSV
         2       $ Choose type of analysis (ITYPE = 1 or 2 or 3 or 4 or 5)
      Y          $ Do you want to prevent secondary buckling (mode jumping)?
      N          $ Do you want to use the "alternative" buckling solution?
         5       $ How many design iterations permitted in this run (5 to 25)?
```

```
  1.000000     $ MAXMAR. Plot only those margins less than MAXMAR (Type H)
     N         $ Do you want to reset total iterations to zero (Type H)?
        1      $ Index for objective (1=min. weight, 2=min. distortion)
  1.000000     $ FMARG (Skip load case with min. margin greater than FMARG)
================================================================================
```