

```

'#TestGrep# "k-eff [=]" ${OUTPUTFILENAME}
'#TestGrep# "Transport k[=]" ${OUTPUTFILENAME}
'#TestGrep# -i "erro[r]" ${OUTPUTFILENAME} | ${GREP} -v "[w]arnings
'#TestGrep# "SCALE is finishe[d]" ${OUTPUTFILENAME} | ${AWK} "{print
'#TestGrep# "is finishe[d]\." ${OUTPUTFILENAME} | ${AWK} "{print $1,
' THIS SAMPLE PROBLEM TEST THE FOLLOWING:
'  ** t-newt sequence
'  ** v7-252 group library
'  ** centrm cross-section processing (default for t-newt calculatio
'  ** parm=weight option for the t-newt sequence, which uses the NEW
'  ** latticecell cross-section processing option
=t-newt          parm=weight
MSFR unit cell model
v7-252
read comp
' fuel salt
  u-233  1 0 6.83517405  973 end
  th-232 1 0 51.529607   973 end
  li-7   1 0 6.075193    973 end
  li-6   1 0 0.00026044  973 end
  f-19   1 0 35.559766   973 end
' fertile salt
  th-232 2 0 58.352547   973 end
  li-7   2 0 6.076978    973 end
  li-6   2 0 0.00026051  973 end
  f-19   2 0 35.570215   973 end
' Structural material
  ni     3 0 79.432       973 end
  w      3 0 9.976        973 end
  cr     3 0 8.014        973 end
  mo     3 0 0.736        973 end
end comp
read celldata
  latticecell squarepitch pitch=310.0 3 fuelr=92.50 1 cladr=111.80 2
end celldata
read model
252 group solution
read parm
  dz=437.1
end parm
read materials
  mix=1 com="Fuel salt LiF-ThF4-233UF4" end
  mix=2 com="Fertile salt LiF4-ThF4"   end
  mix=3 com="Structural material"      end
end materials
read geom
  global unit 1
  cylinder 10 92.50
  cylinder 20 111.80
  cuboid   30 4p155.0
  media    1 1 10
  media    2 1 20 -10
  media    3 1 30 -20
  boundary 30 6 6
end geom

```

**read collapse**

8r1 2r2 **3** 3r4 **5** 5r6 6r7 2r8 3r9 4r10 4r11 **12 13** 10r14 3r15 **16** 6r17  
3r18 18r19 2r20 6r21 **22** 3r23 **24** 7r25 **26** 16r27 2r28 11r29 **30 31** 14r  
**33** 2r34 **35** 3r36 35r37 5r38 7r39 11r40 4r41 2r42 **43 44** 3r45 2r46 2r  
2r49 2r50 **51 52** 2r53 **54** 3r55 10r56

*' OLD 238G collapse to 49G*

*' 7r1 2 3 2r4 5 6 7 8 8 8r9 14r10 6r11 10r12 13 7r14 11r15 12r16 30*

*' 6r20 3r21 6r22 14r23 3r24 5r25 4r26 5r27 5r28 5r29 10r30 5r31 32*

*' 36 37 38 2r39 2r40 3r41 2r42 43 44 45 46 47 3r48 9r49*

**end collapse**

**read bounds**

all=periodic

**end bounds**

**end model**

**end**