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;-----
; cav.pro
; results from undrained cylindrical cavity expansion

; in Cam-Clay medium
;-----
res cav.sav
; table 10 : pore pressure
; table 11 : radial-component of effective stress (xx-stress)
; table 12 : axial-component of effective stress (yy-stress)
; table 13 : tangential-component of effective stress (zz-stress)
; rval      : ln(r/a0)
def b_table
  pnt = zone_head
  loop while pnt # null
    xval = xcen(pnt)
    yval = ycen(pnt)
    rval = 0.5*ln(xval*xval+yval*yval)
    c_pp = z_pp(pnt)
    table(10,rval) = c_pp
    table(11,rval) = -(sxx(pnt)*cc+syy(pnt)*ss+sxy(pnt)*sc) - c_pp
    table(12,rval) = -(sxx(pnt)*ss+syy(pnt)*cc-sxy(pnt)*sc) - c_pp
    table(13,rval) = -szz(pnt) - c_pp
    pnt = z_next(pnt)
  end_loop
end
b_table
; results ---
plot his 9 vs 4 ; Fig 9.3
plot his -2 3 vs 4 ; Fig 9.4
plot table 10 line 11 line 12 line 13 line ; Fig 9.5
ret

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