

#ISINP

--- this is the new input file used by iSALE versions of v7.0 and higher

----- General Model Info -----
VERSION __DO NOT MODIFY__ : 4.1
DIMENSION dimension of input file : 2
PATH Data file path : ./
MODEL Modelname : Copernicus_low_velocity

----- Mesh Geometry Parameters -----
GRIDH horizontal cells : 0 :
400 : 100
GRIDV vertical cells : 100 :
600 : 100
GRIDEXT ext. factor : 1.05d0
GRIDSPC grid spacing : 1.0D2
CYL Cylind. geometry : 1.0D0
GRIDSPCM max. grid spacing : -20. D0

----- Global setup parameters -----
S_TYPE setup type : DEFAULT
T_SURF Surface temp : 250. D0
GRAV_V gravity : -1.63D0

----- Projectile ("Object") Parameters -----
OBJNUM number of objects : 1
OBJRESH CPPR horizontal : 35
OBJVEL object velocity : -1.0D4
OBJMAT object material : dunite_
OBJTYPE object type : SPHEROID

----- Target Parameters -----
LAYNUM layers number : 2
LAYPOS layer position : 100 : 400
LAYMAT layer material : dunite_ : granite
LAYTPROF thermal profile : CONST : CONST

----- Time Parameters -----
DT initial time increment : 5.0D-3
DTMAX maximum timestep : 5. D-2

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TEND          end time          : 7.001D2
DTSAVE        save interval     : 1.0D0
----- Ac. Fluid. Parameters (see also material.inp) -----
TOFF          toff              : 16.D0
CVIB          c_vib             : 0.1D0
VIB_MAX       Max. vib.vel.     : 200.
----- Boundary Condition Parameters -----
----- 0=no slip,1=free slip, 2=cont.outflow -----
BND_L         left              : FREESLIP
BND_R         right             : FREESLIP
BND_B         bottom            : NOSLIP
BND_T         top               : OUTFLOW
----- Numerical Stability Parameters -----
AVIS          art. visc. linear  : 0.24D0
AVIS2         art. visc. quad.   : 1.20D0
----- Control parameters (global) -----
STRESS        Consider stress    : 1
----- Data Saving Parameters -----
QUALITY       Compression rate   : 80
VARLIST       List of variables  : #Den-Tmp-Pre-VEL#
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<<END

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