

# PATH3D v4.6 PARTICLE TRACKING INPUT FILE REFERENCE CARD



## Structure of Particle Tracking Input File:

**Record 1:** NCOUNT NTRKOP NFRONT INIPOS IOPSS INCAPT ITIME

**Format:** 7I10

**Record 2:** TIME1 TIME2 EPS DT MAXSTP ISAV IPRT

**Format:** F10.0 F10.0 F10.0 F10.0 I10 I10 I10

**Record 3:** TFRONT(1), TFRONT(2), ....., TFRONT(NFRONT)

**Format:** 8F10.0

(Record 3 should be omitted if NFRONT=0. This record must occupy more than one line if the value of NFRONT is greater than 8.)

**Record 4:** The input and format of Record 4 depends on values specified for INIPOS and ITIME:

INIPOS:	ITIME:	Record 4:	Format:
1	-1	X Y Z RELPER ENDPER	3F10.0, 2I10
	0	X Y Z	3F10.0
	1	X Y Z RELTIME ENDTIME	5F10.0
2	-1	J I K NPCELL KOPTION RELPER ENDPER	7I10
	0	J I K NPCELL KOPTION	5I10
	1	J I K NPCELL KOPTION RELTIME ENDTIME	5F10.0, 2F10.0
3	-1	X Y K KOPTION RELPER ENDPER	2F10.0, 4I10
	0	X Y K KOPTION	2F10.0, 2I10
	1	X Y K KOPTION RELTIME ENDTIME	2F10.0, 2I10, 2F10.0

## Explanation of New Variables:

- ITIME** code specifying the manner in which the starting and ending times of particles are specified:
- ITIME=0 the starting and ending times for particle tracking are controlled by TIME1 and TIME2 (all particles are tracked over same interval from TIME1 to TIME2)
  - ITIME<0 the starting and ending stress periods for particle tracking are set in Record 4 (TIME1 and TIME2 are ignored)
  - ITIME>0 the starting and ending times for particle tracking are set in Record 4 (TIME1 and TIME2 are ignored)
- RELPER** the release stress period for a specific particle; tracking starts at the beginning of stress period RELPER
- ENDPER** the release stress period for a specific particle; tracking stops at the end of stress period ENDPER
- RELTIME** the release time for a specific particle in simulation time; tracking starts at RELTIME
- ENDTIME** the ending time for a specific particle in simulation time; tracking stops at ENDTIME
- KOPTION** code specifying the vertical particle placement option:
- KOPTION=
- 10001 particle is released from top of cell (HTOP-DZ\*0.01)
  - 10002 particle is released from middle of cell (HTOP-DZ\*0.5)
  - 10003 particle is released from bottom of cell (HTOP-DZ\*0.99)