P(J) = p_j

TLIMA(J) = value of Δt_j for next time step

CSP(J) = sound speed in cell J

E(J) = E_j

ENT(J) = s_j

TMP(J) = T_j

NSA(J) = switching index

= 1, phase I

= 2, mixed phase

= 3, phase II

MAIN

X(J) = x_j (Fig. 5.2)

MASS(J) = mass of cell J

JSTAR = cell label just ahead of shock front at which computation stops for each time cycle

TIMES = t

CYCLE = number of times t has been incremented

JCRIT = value of J for which TLIMA is minimum

LAST = switching index for halting program after writing last output.

PPEAK = maximum computed pressure in each cycle

TLIMB = TLIMA(JCRIT)

PLEFT = pressure applied to left boundary

DFNU = mass in cell J+1

XA = $x(t + \Delta t)$

VN = $v(t + \Delta t)$

QA = $Q(t + \Delta t)$

JPMAX = value of J at which p is maximum

ZMIX

FRACT(J) = α_j

XEQ(J) = α_j^{eq}

V1(J) = $v_{1j}(p,T)$