```
      SUBROUTINE FUNCT(T,Y,YPRIME)
      IMPLICIT DOUBLE PRECISION (A-H, O-Z)
      DOUBLE PRECISION Y(NUU), YPRIME(NUU)
      COMMON/IZO/IZF,IZR
      COMMON/NUEQ/NUU
CC
      LR=IZF
      LRX=IZR
CC
      DO   J=1,NUU
         YPRIME(J)=
     #   FAP(LR,LRX,J,T,Y(1),Y(2),Y(3),Y(4),Y(5),Y(6),Y(7),Y(8),Y(9),
     #   Y(10),Y(11),Y(12),Y(13),Y(14),Y(15),Y(16),Y(17),Y(18),Y(19),
     #   Y(20),Y(21),Y(22),Y(23),Y(24),Y(25),Y(26),Y(27),Y(28),Y(29),
     #   Y(30),Y(31),Y(32),Y(33))
      ENDDO
CC
C-------------------------
       call vaver(t,y)
C-------------------------
      RETURN
       END
```