

# ADAS Subroutine zero1

SUBROUTINE ZERO1(A,B,VA,VB,D1,X,XI,Z,E,TIF,T2)

C

IMPLICIT REAL\*8 (A-H,O-Z)

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C \*\*\*\*\* FORTRAN77 SUBROUTINE: ZERO1 \*\*\*\*\*

C

C PURPOSE UNKNOWN

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C NOTES: THIS ROUTINE IS NOT YET PROPERLY ANNOTATED

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C UNIX-IDL PORT:

C

C VERSION: 1.1 DATE: 16-1-96

C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC)

C

- FIRST VERSION

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C

X=(A\*VB-B\*VA)/(VB-VA)

9 X1=X

T=Z+E\*X

D=TIF\*X

V=0.5-T2\*XIP(XI,D)/(T\*T)

IF(V)11,16,10

10 B=X

VB=V

GO TO 12

11 A=X

VA=V

12 X=0.5\*(A+B)

T=Z+E\*X

D=TIF\*X

V=0.5-T2\*XIP(XI,D)/(T\*T)

IF(V)14,16,13

13 B=X

VB=V

GO TO 15

14 A=X

VA=V

15 X=(A\*VB-B\*VA)/(VB-VA)

IF(DABS(X1-X)/X-D1)16,16,9

16 RETURN

END

REAL*8	A,	B,	D1,	E
REAL*8	T2,	TIF,	VA,	VB
REAL*8	X,	XI,	Z	