WISC LIBRARY

File # 2.01.01

Operation: Square Root Routine

$r = \sqrt{b}$	SQR

Use

a) Calling Linkage

L :	001	1	[L+2]	[312]	[35f]
L + 1:	—	5	[—]	[—]	[SQR: 1]
L + 2:	—	0	] b [	] r [	β

b) Adaptation Link Word

L + 2: 11]W[11 β

c) Storage

j = 11 words

k = 11 orders

0 constants

3 opstos: 35d to 35f

Requirements and Performance

a) Method of operation Floating point. - succesive iterations.

b) Additional routines required None

c) Range and form of variable b must be real and normalized. When $b < 0$, $r = \sqrt{|b|}$ is furnished with a negative sign.

d) Accuracy 1×2^{-40} of significant number.

e) Performance time About 1.1 sec.