

OperationExponential - Polynomial
Approximation

$$r = e^b$$

EXP

Use

a) Calling Linkage

L :	100	8	L+2	3ff	35f
L + 1:	/	5	/	/	EXP:1
L + 2:	/	0	b	r	B

b) Adaptation Link Word

L + 2: 01e 1wL 018 B

c) Storage

J = 30 wordsK = 24 orders6 constants2 opstos: 35e to 35fRequirements and Performancea) Method of operation Polynomial approximation,
See Rand, pg 184 Floating pointb) Additional routines required Nonec) Range and form of variable Normalizedd) Accuracy $|b| < 7$ $5 \times 10^{-5} \%$
 $|b| < 8$ $3 \times 10^{-3} \%$ e) Performance time 600 mS.