ATTENTION

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Expanded Adding Machine is a minimum - space version of Expensive Adding Machine (DEC-5-43-D) using a table lookup method and including an error escape facility.

This is a basic version to which additional control functions can easily be added: optional vertical or horizontal format, optional storage of intermediate result without reentry, fixed-point output of results within reason, and other features that can be had in little additional space under switch register control.

*5
PINK, 7400
FOUT, 7200
FPNT, 5600
*176
XTYP, TYPE
XCL, CRLF
*200
BEGIN, KCC
TLs
JMS I Z XCL
DCA ACC
DCA ACC+1
DCA ACC+2

/SA = 0200

/CR,LF

/CLEAR 3-WORD REGISTER

/READ OPERATOR, KYBD OR TAPE

/SET POINTER FOR TABLE LOOKUP

/STEP POINTER TO OPERATOR CODE

/TEST OPERATOR CODE

/STEP POINTER TO FUNCTION VALUE

/TRY NEXT CODE IN TABLE

/ILLEGAL CODE, TRY AGAIN

/TYPEOUT OPERATOR

/SPACE
JMS I Z FINK
JMP 1 PTR

/GET OPERAND (KEY SPACE AFTER ! OR =)
/GO TO OPERATOR SUBROUTINE

PTR, 0
CODX, CODX
0-241
JMP BGIN+2
/ CODE 241 IS :, RESTR
241-253
JMP ADD
/ CODE 253 IS +
253-255
JMP SUB
/ CODE 255 IS -
255-257
JMP DVD
/ CODE 257 IS SLASH
257-275
JMP EQL
/ CODE 275 IS =
275-330
JMPMLT
/ CODE 330 IS X
330-400

ADD, JMS I Z FPNT
FADD ACC
FPUT ACC
FEXT
JMP GOPR

SUB, JMS I Z FPNT
FPUT ACC + 3
FGET ACC
FSUB ACC + 3
FPUT ACC
FEXT
JMP GOPR

DVD, JMS I Z FPNT
FPUT ACC + 3
FGET ACC
FDIV ACC + 3
FPUT ACC
FEXT
JMP GOPR

MLT, JMS I Z FPNT
FMPY ACC
FPUT ACC
FEXT
JMP GOPR

EQL, JMS I Z FPNT
FGET ACC
FEXT
JMS I Z XCL
/ CR, LF
JMS I Z FOUT
/ TYPEOUT RESULT
JMP BGIN+2

ACC, 0
0
0
0
0
0

SAVE, 0 /EAD = 0315

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