

SYSTEM/360 ASSEMBLER INSTRUCTIONS

Following is a representative list of assembler instructions, grouped according to use. The mnemonics used for conditional assembly and macro definition are included simply to clarify classification of assembler instructions as a whole. Information on these two subjects is given in the System/360 Assembler Language manuals (see Preface). The meaning of the extended mnemonics for the Branch on Condition machine instructions, and the machine code generated by each, appear elsewhere in this Appendix.

MNEMONIC MEANING

For symbol definition

EQU Equate Symbol

For data definition

DC Define Constant
DS Define Storage
CCW Define Channel Command Word

For program sectioning and linking

START Start Assembly
CSECT Identify Control Section
DSECT Identify Dummy Section
ENTRY Identify Entry-point Symbol
EXTRN Identify External Symbol
COM Identify Blank Common Control Section

For base register assignment

USING Use Base Address Register
DROP Drop Base Address Register

For control of printed listings

TITLE Identify Assembly Output
EJECT Start New Page
SPACE Space Listing
PRINT Print Optional Data

For program control

ICTL Input Format Control
ISEQ Input Sequence Checking
ORG Set Location Counter
LTORG Begin Literal Pool
CNOP Conditional No Operation
COPY Copy Predefined Source Coding
END End Assembly
PUNCH Punch a Card
REPRO Reproduce Following Card

For macro definition

MACRO
MNOTE
MEXIT
MEND

MNEMONIC

For conditional assembly

GBLA
GBLB
GBLC
LCLA
LCLB
LCLC
SETA
SETB
SETC
AIF
AGO

Extended mnemonics for the BC and BCR machine instructions

B
BR
NOP
NOPR
BH
BL
BE
BNH
BNL
BNE
BO
BP
BM
BZ
BNP
BNM
BNZ
BNO

TYPES OF ASSEMBLER LANGUAGE CONSTANTS

Code	Type	Machine Format
C	Character	8-bit code for each character
X	Hexadecimal	4-bit code for each hexadecimal digit
B	Binary	Binary
F	Fixed-point	Signed, fixed-point binary; normally a fullword
H	Fixed-point	Signed, fixed-point binary; normally a halfword
E	Floating-point	Short floating-point; normally a fullword
D	Floating-point	Long floating-point; normally a doubleword
P	Decimal	Packed decimal
Z	Decimal	Zoned decimal
A	Address	Value of address; normally a fullword
Y	Address	Value of address; normally a halfword
S	Address	Base register and displacement value; a halfword
V	Address	Space reserved for external symbol addresses; each address normally a fullword