

8085 ASSEMBLER DIRECTIVES

Assembler directives are instructions to the assembler concerning the program being assembled. They are not translated into machine code or assigned any memory locations in the object file.

Assembler Directive	Example	Description
ORG (origin)	org 20	The next block of instructions or data should be stored in memory locations starting at 20 ₁₀ . Either hex or decimal numbers are acceptable.
END	end start	End of assembly. A HLT instruction may suggest the end of a program, but does not necessarily mean it is the end of assembly. "start" is the label at the beginning of the program*.
EQU (equate)	lookup equ 2	The value of the term, lookup, is equal to 2. lookup's value may be referred by name in the program. Similar to a constant statement.
	inbuf equ 2099	The value of the term, inbuf, is 2099. This may be the memory location used as an input buffer.
DB (define byte)	data: db 34 or data: db 34 db A2 db 93	Initialises an area byte by byte. Assembled bytes of data are stored in successive memory locations until all values are stored. The label is optional and may be used as the memory location of the beginning of the data.
DW (define word)	long: dw 2050	Initialises an area two bytes at a time.
DS (define storage)	table: ds 10	Reserves a specified number of memory locations. In this example, 10 memory locations are reserved for "table". The label may be used as the memory location of the beginning of the block of memory.