

What is the format of Intel Hexadecimal files (.hex)?

Environment

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Description A HEX is often downloaded from a PC to a development system and run from RAM. HEXs can also be converted to binary files and programmed into a configuration device.

A sample HEX is shown below:

```
:10008000AF5F67F0602703E0322CFA92007780C361  
:1000900089001C6B7EA7CA9200FE10D2AA00477D81  
:0B00A00080FA92006F3600C3A00076CB  
:00000001FF
```

The format for this file is:

First character (:) = Start of a record
Next two characters = Record length (in this example, 10h)
Next four characters = Load address (in this example, 0080h)
Next two characters = Record type (see below)
Remaining characters = Actual data
Last two characters = Checksum (i.e., sum of all bytes checksum = 00)

The last line of the file is special, and always looks like the last line shown above. HEX record types are shown below:

- 00 = Data record
- 01 = End of file record
- 02 = Extended segment address record
- 03 = Start segment address record
- 04 = Extended linear address record
- 05 = Start linear address record

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