

NAME

srec_os65v – OS65V Loader file format

DESCRIPTION

This format is used by Ohio Scientific OS65V-compatible loaders. This family of machines includes the OSI C1P, Superboard II, C2, C4, C8, and Challenger III, as well as the UK101, and Elektor Junior.

The file starts with a period '.' (0x2E), to ensure address entry mode. then a 4-digit hex address, followed by a slash '/' (0x2F) to enter the data entry mode. The initial address is always present. There is no need for an additional address record unless there are gaps.

Each data byte is represented as 2 hexadecimal characters, and is separated by a carriage return character (0x0D) (advance address). The final return character may be omitted.

The data is concluded with a period '.' (0x2E) to re-enter address mode. If an address to start execution is specified, then the last 5 bytes are *nnnnG* where *nnnn* is the 4-digit execution address, and G is the 'Go' command.

Size Multiplier

In general, binary data will expand in sized by approximately 3.0 times when represented with this format.

EXAMPLE

Here is an example ascii-hex file. It contains the data "Hello, World" to be loaded at address 0x1000, with execution at 0x1003. (On a 6502, this is the opcode for indirect jump to 0x2C6F.)

```
1000/48^M65^M6C^M6C^M6F^M2C^M20^M57^M6F^M72^M6C^M64^M0A^M.1010G
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srec_cat version 1.47

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