

NAME

srec_dec_binary – DEC Binary (XXDP) file format

DESCRIPTION

The DEC Binary (XXDP) format was used on the PDP 11 series machines. This is a binary format, and is not readable or editable with a text editor. The file consists of records of the form

| | | | | |
|------|--------|---------|------------|----------|
| type | length | address | ...data... | checksum |
|------|--------|---------|------------|----------|

The fields are defined as follows:

type Two byte little-endian value. Must always be 1.

length Two byte little-endian value. This is the number of bytes in the data, plus six.

address Two byte little-endian value. This is the load address of the data.

data The data is simple raw bytes. There are (length-6) of them.

checksum

The checksum is a single byte. It is the negative of the simple sum of all the header and data bytes.

If the record length is exactly 6 (*i.e.* no data), this is the execution start address record, indicating the transfer address.

In addition there may be NUL padding characters between records. It is common for records to be padded so that they start on even byte boundaries. In the days of paper tape, it was common for the file to have many leading NULs, to generate blank leader on the tape.

Size Multiplier

In general, raw binary data will expand in size by approximately 1.03 times when represented with this format.

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srec_cat version 1.47

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