

# Simple Symbolic Output Format

This document describes the file format generated by the `-Fs` command line switch.

The file is primarily intended for information purposes only or to provide a degree of self-hosting symbolic debug support when combined with the flat binary output option. This is particularly useful for embedded, pre-kernel and kernel module code.

Offset	Size (bytes)	Description
0	4	<b>Symbol Count</b>
4 .. n	1	<b>Symbol type:</b> 'S' = segment 'T' = type 'P' = proc 'L' = address/location
.	4	<b>Offset (from segment start)</b>
.	4	<b>Size</b>
.	4	<b>Type:</b> MT_SIZE_MASK = 0x1F, /* if MT_SPECIAL==0 then bits 0-4 = size - 1 */ MT_FLOAT = 0x20 MT_SIGNED = 0x40, /* bit 6=1 */ MT_BYTE = 1 - 1, MT_SBYTE = MT_BYTE   MT_SIGNED, MT_WORD = 2 - 1, MT_SWORD = MT_WORD   MT_SIGNED, MT_DWORD = 4 - 1, MT_SDWORD = MT_DWORD   MT_SIGNED, MT_REAL4 = MT_DWORD   MT_FLOAT, MT_FWORD = 6 - 1, MT_QWORD = 8 - 1, MT_SQWORD = MT_QWORD   MT_SIGNED, MT_REAL8 = MT_QWORD   MT_FLOAT, MT_TBYTE = 10 - 1, MT_REAL10 = MT_TBYTE   MT_FLOAT, MT_OWORD = 16 - 1, MT_YMMWORD = 32 - 1, MT_ZMMWORD = 64 - 1, MT_PROC = 0x80, /* symbol is a TYPEDEF PROTO, state=SYM_TYPE, typekind=TYPE_TYPEDEF, prototype is stored in target_type */ MT_NEAR = 0x81, MT_FAR = 0x82, MT_EMPTY = 0xC0, MT_BITS = 0xC1, /* record field */ MT_PTR = 0xC3, MT_TYPE = 0xC4, /* symbol has user-defined type (struct, union, record) */ MT_SPECIAL = 0x80, /* bit 7 */ MT_SPECIAL_MASK = 0xC0, /* bit 6+7 */ MT_ADDRESS = 0x80, /* bit 7=1, bit 6 = 0 */
.	N bytes	Name, null terminated.