

SEm ROM 0

```
00000000 30 00 00 04 00 00 00 23 fb cc 00 03 fd 06 00 20 |0.....#.....| Where the Directory starts. The ROM starts at 20xxxx
00000010 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....|
*
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```
00000080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 4c f9 |.....N.....|
00000090 00 0a 8a b5 4c f9 00 a8 4e 4a 4c f9 00 a8 13 d2 |...N...N.N.N....| File contents of first file in ROM.
000000a0 4e f9 00 08 49 ce 4c f9 00 a8 1d c8 4c f9 00 a8 |N...I.N...N....|
```

```
0003fb0c 73 68 0a 05 78 69 74 20 32 35 35 0a 2e 73 68 61 |sh.exit 255.sha|
0003fb0d 75 64 0a 06 26 09 00 00 00 00 00 28 0e 8e 81 74 |red.....s.....| 00 20 00 8e Starting address 81 24 permissions
0003fb0e 00 00 9e d0 2e 69 6e 69 74 00 00 00 00 00 00 00 |.....init.....| 00 00 9e d0 Length
0003fbf0 00 00 00 20 9f 5e 81 6d 00 00 11 45 53 45 5f 52 |...^.m...ESE_R|
0003fc00 4f 4d 39 00 00 00 00 00 00 00 23 1d 44 81 6d |0M0.....m.....|
0003fc10 00 00 00 2c 61 72 00 00 00 00 00 00 00 00 00 |...0f.....m.....|
0003fc20 00 00 00 20 ce 10 81 6d 00 00 05 72 61 72 2e 72 |...m...rar.r|
0003fc30 61 6e 6c 69 62 00 00 00 00 20 09 a6 81 6d |anlib.....m.....|
0003fc40 00 01 6e 63 32 00 00 00 00 00 00 00 00 00 00 |...nc2.....m.....|
0003fc50 00 00 00 21 59 88 81 6d 00 00 22 de 63 62 00 00 |...f.y.m...".cb..|
0003fc60 00 00 00 00 00 00 00 00 00 00 21 a8 5e 81 6d |.....l..m.....|
0003fc70 00 00 04 63 63 6f 6d 00 00 00 00 00 00 00 00 |...Nccom.....|
0003fc80 00 00 00 22 f4 78 81 6d 00 00 67 0e 63 70 70 00 |...".x.m..g.cpp..|
0003fc90 00 00 00 00 00 00 00 00 00 00 23 99 8e 81 6d |.....#...m.....|
0003fca0 00 00 c2 66 63 63 00 00 00 00 00 00 00 00 00 |...fcc.....|
0003fcb0 00 00 00 23 cb f0 81 6d 00 00 05 8a 63 63 00 00 |...#.....c.....|
0003fcc0 00 00 00 00 00 00 00 00 00 00 23 cb f0 81 6d |.....#...m.....|
0003fcd0 00 00 05 8a 66 69 6e 64 00 00 00 00 00 00 00 |...fnd.....|
0003fce0 00 00 00 23 f1 52 81 6d 00 00 04 67 72 6f 75 |...#.R...vgrou...|
0003fcf0 70 00 00 00 00 00 00 00 00 00 23 f5 c8 81 24 |p.....#...s.....|
0003fd00 00 00 cb 70 61 73 73 77 64 00 00 00 00 00 00 00 |...passwd.....|
0003fd10 00 00 23 f6 94 91 24 00 00 00 aa 63 72 74 30 |...#...s...crt0...|
0003fd20 2e 6f 00 00 00 00 00 00 00 00 23 f7 3e 81 24 |.o.....#>...s.....|
0003fd30 00 00 01 5c 6d 63 72 74 30 2e 6f 00 00 00 00 00 |...mcr10.o.....|
0003fd40 00 00 23 f8 91 24 00 00 00 03 24 66 61 6f 73 |...#...s...$fals...|
0003fd50 65 00 00 00 00 00 00 00 00 00 23 fb be 81 6d |e.....#...m.....|
0003fd60 00 00 00 0e 74 72 75 65 00 00 00 00 00 00 00 |...true.....|
0003fd70 00 00 23 fb 81 6d 00 00 00 00 74 72 75 65 |...#...m.....true|
0003fd80 00 00 00 00 00 00 00 00 00 00 00 00 81 6d |.....#.....|
0003fd90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....#.....|
*
```

```
0003ffff 00 92 88 16 00 b5 de b9 00 02 00 00 01 48 6a 4d |.....HJH|
```

SE ROM 1

```
00040000 30 00 00 04 00 00 00 27 fd 96 00 03 fd b0 00 24 |0.....'......s| The sequence 30 00 00 04 00 00 is repeated in all (?) ROMs.
00040010 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....| On the other hand 00 03 fd b0 differ from ROM to ROM. But the number appears to be in the same range.
*
```

```
00040080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 23 21 |.....#|| It appears though that the last 2 bytes (00 24) on the first 16 bytes
00040090 2f 72 6f 6d 2f 73 68 0a 73 65 74 20 2d 76 6e 0a |/rom/sh.set -vn..| of each ROM increase by four between each ROM.
000400a0 52 65 6c 65 61 73 65 20 35 2e 30 0a 4a 75 6c 79 |Release 5.0,July|
000400b0 20 32 33 2c 20 31 39 38 36 0a 20 7c 00 08 04 68 |23, 1986. j...h|
000400c0 4e b9 00 a0 05 e6 4b f9 00 a4 00 f2 23 fc 00 08 |N.....K.....#...|
000400d0 11 a8 00 08 04 28 23 fc 00 08 08 70 00 08 03 fc |N.....(#.....p....|
```

```
0007fd90 01 60 00 02 03 02 53 45 5f 52 4f 4d 31 00 00 00 |'.....SE_ROM1...| A directory entry is 24 bytes.
0007fd9b 00 00 00 00 24 2a 0e 01 60 00 00 2c 0e 79 79 |.....s...hy.....| The SE_ROM1 file is 44 bytes in size. Located at 0024008E.
0007fdb0 70 68 65 6e 00 00 00 00 00 00 00 00 00 24 04 66 |phen.....s.f.....| Permissions are 8160 = 1 000 000 101 101 101 = Octal 100555
0007fdd0 81 6d 00 00 00 7e 6c 69 62 63 2e 61 00 00 00 00 |.m...-libc.a....|
0007fde0 00 00 00 00 24 e4 81 24 00 02 4a be 6c 69 |.....s...J..li|
0007fde0 62 6d 61 00 00 00 00 00 00 00 00 26 4f a2 |bm.a...-60.....|
0007fdf0 81 24 00 01 92 34 6c 69 62 74 65 72 6d 63 61 70 |.s...4libtermcap|
0007fe00 2e 61 00 00 27 c1 d0 81 24 00 0b c8 6c 69 |.a.....s...li|
0007fe10 62 74 72 6d 69 62 2e 00 00 00 27 c1 d0 |btermLib.....|
0007fe20 81 24 00 0b c8 6c 69 62 74 65 72 6d 6c 69 62 |.s...libtermLib|
0007fe30 2e 61 00 00 00 00 00 00 81 24 00 0b c8 00 00 |.a.....$.....|
0007fe40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....| Last directory entry seems to be all zeros.
*
```

```
0007ffff 00 63 a6 9a 00 75 9a 6f 00 02 00 00 d9 44 2c |.c...u.o.....D,|
```

```
00080000 30 00 00 04 00 00 00 2b fb 0c 00 03 fc a6 00 28 |0.....#.....(| Directory is at 00FB0C in this dump.
00080010 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....| The 30 00 00 04 00 00 is the same in all ROMs.
*
```

```
00080080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 23 21 |.....#||
00080090 2f 72 6f 6d 2f 73 68 0a 73 65 74 20 2d 76 6e 0a |/rom/sh.set -vn..|
000800a0 52 65 6c 65 61 73 65 20 35 2e 30 0a 4a 75 6c 79 |Release 5.0,July|
000800b0 20 32 33 2c 20 31 39 38 36 0a 20 7c 00 08 0d d8 |23, 1986. j...h|
000800c0 4e b9 00 a0 05 e6 4b f9 00 a8 00 f2 23 fc 00 08 |N.....K.....#...|
000800d0 00 00 00 04 2a 23 2c 00 11 e0 00 03 fc 00 08 |...#.....#.....|
000800e0 23 fc 00 08 d0 d8 00 08 04 00 4e f9 00 a0 06 0a |#.....N.....|
000800f0 00 00 4e 56 ff f0 4e 42 ff e4 2d 4d ff f0 42 ae |.NV..NB...M..B..|
00080100 ff f4 20 0e 00 c2 2d 00 08 15 e8 00 00 0a |..n..#.....|
00080110 20 2e ff fc 90 bc 00 00 00 62 0b bc 00 00 12 |.....b.....|
00080120 62 00 00 a2 d0 40 30 3b 00 0e 4e fb 00 02 00 28 |b....@0;..N....(|
00080130 00 32 00 96 00 96 00 96 00 96 00 96 00 96 00 3c |.Z.....@.....<|
```

```
000bf000 09 7a 3d 30 3b 09 65 78 69 74 0a 00 53 45 5f 52 |.z=0;.exit..SE_R|
000bf010 4f 4d 32 00 00 00 00 00 00 00 00 28 0e 81 6d |0M2.....(..m.....|
000bf020 00 00 00 2c 61 64 6a 75 73 74 00 00 00 00 00 00 |...adjust.....|
000bf030 00 00 00 28 0f d2 81 6d 00 00 01 7a 63 6f 6c 00 |...((...m...zcol..|
000bf040 00 00 00 00 00 00 00 00 00 00 28 1e a0 81 6d |.....(.....m.....|
000bf050 00 00 b2 64 65 72 6f 66 66 00 00 00 00 00 00 |...deroff.....|
000bf060 00 00 28 5c a2 81 6d 00 00 00 e6 6c 64 00 00 |...(\.m...ld.....|
000bf070 00 00 00 00 00 00 00 00 00 00 28 f9 a0 81 6d |.....(.....m.....|
000bf080 00 00 2e 6c 65 78 00 00 00 00 00 00 00 00 |...lex.....|
000bf090 00 00 29 0e 16 81 6d 00 00 01 ea aa 6e 65 71 6e |...).m...neqn.....|
000bf0a0 00 00 00 00 00 00 00 00 00 00 29 76 4c 81 6d |.....)vl..m.....|
000bf0b0 00 00 22 de 72 6f 66 66 00 00 00 00 00 00 00 |..?..nroff.....|
000bf0c0 00 00 2a 58 4a 81 6d 00 00 00 1b c2 74 62 6c 00 |...xJ.m...tbl..|
000bf0d0 00 00 00 00 00 00 00 00 00 00 2a f5 2c 81 6d |.....s.....m.....|
000bf0e0 00 00 17 6c 66 62 6c 2e 61 00 00 00 00 00 |...ZLibLib.a.....|
000bf0f0 00 00 00 2b c8 86 81 24 00 00 0a e4 6e 63 66 6f |...+...s...ncfro|
000bf100 72 6d 00 00 00 00 00 00 00 00 2b 1f 6a 81 24 |rm.....+..j.s.....|
000bf110 00 00 18 56 61 6e 00 00 00 00 00 00 00 00 00 |...Var.....|
000bf120 00 00 00 2b 27 c8 81 24 00 00 16 6d 6d 6e 00 |...+...s...mm.....|
000bf130 00 00 00 00 00 00 00 00 00 00 2b 3e 46 81 24 |...+.....>F.s.....|
000bf140 00 00 93 6c 73 75 06 74 61 62 00 00 00 00 00 |...lsurftab.....|
000bf150 00 00 2b 1b b2 81 24 00 00 0b 8c 74 61 62 33 |..7..+..s...tab3...|
000bf160 37 00 00 00 00 00 00 00 00 00 00 2b da 6e 81 24 |7.....+..h.s.....|
000bf170 00 00 06 51 74 61 62 6c 61 73 65 72 00 00 00 |...Qtblaser.....|
000bf180 00 00 2b c8 81 24 00 00 06 8c 74 61 62 6c |...+...s...tabl...|
000bf190 70 00 00 00 00 00 00 00 00 00 2b e6 cc 81 24 |p.....+...s.....|
000bf1a0 00 00 05 b2 74 61 62 74 68 69 6e 6b 6a 65 74 00 |...tabthinkjet..|
000bf1b0 00 00 2b c8 7e 81 24 00 00 05 c8 74 6d 61 63 |...+...s...tmac...|
000bf1c0 2e 61 6e 00 00 00 00 00 00 00 2b 46 81 24 |.am.....+..F.s.....|
000bf1d0 00 00 0c 74 6d 61 63 2e 6d 00 00 00 00 00 00 |...tmac.m.....|
000bf1e0 00 00 2b f2 52 81 24 00 00 26 64 69 66 66 |...+R.s...6d1ff...|
000bf1f0 6d 65 00 00 00 00 00 00 00 00 2b f2 78 81 6d |mk.....+..m.....|
000bf200 00 01 b4 6d 6d 00 00 00 00 00 00 00 00 00 00 |...mm.....|
000bf210 00 00 2b f4 2c 81 6d 00 00 06 df 6d 6d 00 00 |...+..m...mm..|
000bf220 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....|
000bf230 00 00 06 df 00 00 00 00 00 00 00 00 00 00 |.....|
000bf240 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....|
*
```

```
000bffff 00 8a 17 aa 00 b4 7d 92 00 02 00 00 01 3e 98 4c |.....).>..L| What does the last 15 bytes do ???
```

```
000c0000 30 00 00 04 00 00 00 2f fd 30 00 03 fd c2 00 2c |0.....f.0.....| Directory at 002FFD30
000c0010 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....|
```

```
000c0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 23 21 |.....#||
000c0090 2f 72 6f 6d 2f 73 68 0a 73 65 74 20 2d 76 6e 0a |/rom/sh.set -vn..|
000c00a0 52 65 6c 65 61 73 65 20 35 2e 30 0a 4a 75 6c 79 |Release 5.0,July|
000c00b0 20 32 33 2c 20 31 39 38 36 0a 20 7c 00 08 09 5c |23, 1986. j...h|
000c00c0 4e b9 00 a0 05 e6 4b f9 00 ac f5 ca 23 fc 00 08 |N.....K.....#...|
000c00d0 e1 98 00 08 04 28 23 fc 00 08 8d 64 00 08 03 fc |.....(#.....d....|
```

```
000ffd30 53 45 5f 52 4f 4d 33 00 00 00 00 00 00 00 2c |SE_ROM3.....|
000ffd40 00 8e 81 6d 00 00 00 2c 63 64 62 00 00 00 00 |...m...cdd.....|
000ffd50 00 00 00 00 00 00 00 2d c9 a6 81 6d 00 0e 9a |.....m..N.....|
000ffd60 66 64 62 00 00 00 00 00 00 00 00 00 00 00 2d |fdb.....|
000ffd70 a9 a6 81 6d 00 0e 9a 70 64 62 00 00 00 00 00 |...m..N.pdb.....|
000ffd80 00 00 00 00 00 2d c9 a6 81 6d 00 0e 9a |.....+..m..N.....|
000ffd90 69 6e 63 6c 75 64 65 00 00 00 00 00 00 00 2e |include.....|
000ffda0 1c 18 81 6d 00 00 06 72 63 6f 6d 70 72 65 73 73 |...m...rcompress|
000ffdb0 00 00 00 00 00 00 2e 1c 18 81 6d 00 00 06 72 |.....m...f.....|
000ffdc0 75 6e 63 6f 6d 70 72 65 73 73 00 00 00 00 2e |uncompress.....|
000ffdd0 1c 18 81 6d 00 00 06 72 7a 63 61 74 00 00 00 00 |...m...rzcata....|
000ffde0 00 00 00 00 00 00 2e 1c 18 81 6d 00 00 06 72 |.....m...r.....|
000ffdf0 73 74 69 70 00 00 00 00 00 00 00 00 00 2e |strip.....|
000ffef0 33 ea 81 6d 00 00 05 3a 69 6e 63 6c 75 64 65 2e |3..m...include...|
000ff00 63 70 69 6f 00 00 00 2e 39 24 81 24 00 01 c2 28 |cpio...9s...(|
000ff010 65 6e 64 2e 6f 00 00 00 00 00 00 00 00 00 2f |end.o.....|
000ff020 fb 4c 81 24 00 00 e1 e3 65 6e 64 2e 6f 00 00 00 |.L.s...end.o....|
000ff030 00 00 00 00 00 00 00 00 00 00 81 24 00 00 01 c3 |.....s.....|
000ff040 00 00 00 00 00 00 00 00 00 00 00 00 00 00 e0 |.....|
000ff050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 e0 |.....|
*
```

```
000ff0ff 00 b8 f1 26 00 cd b3 2f 00 02 00 00 01 86 a7 d5 |...&...f.....|
```