Samsung's Shannon Modem Backtrace Log Format
— Grant Hernandez (@Digital_Cold), https://hernan.de/z

BTL Size (0x01ffff0, ~32MB)

Back Trace Log Magic

BTL Version

Sub-buffer Count#1 (2)

Sub-buffer Count#2 (2)

BUF1/BUF2/BUF3/BUF4 Offsets

CBUF End Offset

Compressed Buffer Magic

CBUF Size

Samsung Log Magic

SLOG ID (0)

SLOG Compressed Size

SLOG Uncompressed Size

```
0000000h: 42 54 4C 3A F0 FF FF 01 31 31 30 30 02 00 00 00    BTL:ðÿÿ.1100....
0000010h: 02 00 00 00 70 E5 F9 01 10 6C FB 01 B0 F2 FC 01    ....påù..lû.°òü.
0000020h: 50 79 FE 01 43 42 55 46 40 E5 F9 01 1B 49 06 00    Pyþ.CBUF@åù..I..
0000030h: 53 4C 4F 47 1D 99 00 00 00 00 00 00 86 86 01 00    SLOG.™......††..
0000040h: F3 15 7F 1A 00 00 17 00 FF FF A1 05 01 87 08 00    ó.......ÿÿ¡..‡..
0000050h: 00 FF 1C 27 8A 41 00 00 01 80 0D 00 00 7E 7F 1E    .ÿ.'ŠA...€...~..
```

LZ4 Compressed SLOG Data

SLOG ID (1)

```
000995Dh: 53 4C 4F 47 93 A7 00 00 01 00 00 00 91 86 01 00    SLOG"§......'†..
000996Dh: F0 1F 7F 1A 00 00 17 00 FF FF A1 45 01 A7 0F 00    ð.......ÿÿ¡E.§..
000997Dh: 00 FF 00 8A 8A 41 00 00 01 D0 24 E2 40 7E 7F 1E    .ÿ.ŠŠA...Ð$â@~..
```

BUF1 Magic

Buffer Len/Offset

Start-of-frame (SoF)

Frame Length

```
1F9E570h: 42 55 46 31 94 86 01 00 70 86 01 00 7F 1E 00 00    BUF1"†..p†......
```

Frame Sub-Length

Flags

```
1F9E580h: 1B 00 FF FF A1 25 01 61 14 02 00 FF AC 89 8A 41    ..ÿÿ¡%.a...ÿ¬‰ŠA
```

Uptime (136289 s)

Modem Debug Trace Entry @ 0x418A89AC

```
1F9E590h: 00 00 02 D0 24 E2 40 01 00 00 00 7E 7F 2E 00 00    ...Ð$â@....~....
```

var_args count

va_arg(0) string @ 0x40E224D0

va_arg(1) int (1)

End-of-frame (EoF)

SoF

418A89ACh: [%s]Support CAType=%d\x00

[MAIN]Support CAType=1

40E224D0h: MAIN\x00