```
 1: // $Id: sigtoperl.cpp,v 1.1 2018-11-06 18:50:44-08 - - $
 2:
 3: #include <cstdlib>
 4: #include <cstring>
 5: #include <ctime>
 6: #include <iomanip>
 7: #include <iostream>
 8: #include <string>
 9: #include <sys/utsname.h>
10: using namespace std;
11:
12: int main (int, char** argv) {
13:
14:    // Print UTS system information.
15:    struct utsname utsbuf {};
16:    uname (&utsbuf);
17:    cout << "# " << basename (argv[0]) << ": " << utsbuf.machine
18:         << " " << utsbuf.sysname << " " << utsbuf.nodename << endl;
19:
20:    // Print current date/time.
21:    struct tm tm_local;
22:    time_t tm_now = time (nullptr);
23:    localtime_r (&tm_now, &tm_local);
24:    char tm_buffer[256];
25:    strftime (tm_buffer, sizeof tm_buffer, "%c", &tm_local);
26:    cout << "# " << basename (argv[0]) << ": " << tm_buffer << endl;
27:
28:    // Print strsignal information.
29:    constexpr int MAXSIG = 255;
30:    cout << "my %strsignal = (" << endl;
31:    for (int sig = 0; sig < MAXSIG; ++sig) {
32:       const char* strsig = strsignal (sig);
33:       if (strsig == nullptr) continue;
34:       string stringsig = strsig;
35:       if (stringsig.find_first_of ("Unknown signal ") == 0) continue;
36:       if (stringsig.find_first_of ("Real-time signal ") == 0) continue;
37:       cout << setw(5) << sig << " => \"" << stringsig << "\"," << endl;
38:    }
39:    printf (");\n");
40:    return EXIT_SUCCESS;
41: }
42:
```

```
 1: # sigtoperl: x86_64 Linux unix3.lt.ucsc.edu
 2: # sigtoperl: Fri Feb 14 17:11:15 2020
 3: my %strsignal = (
 4:     1 => "Hangup",
 5:     2 => "Interrupt",
 6:     3 => "Quit",
 7:     4 => "Illegal instruction",
 8:     5 => "Trace/breakpoint trap",
 9:     6 => "Aborted",
10:     7 => "Bus error",
11:     8 => "Floating point exception",
12:     9 => "Killed",
13:    11 => "Segmentation fault",
14:    13 => "Broken pipe",
15:    14 => "Alarm clock",
16:    15 => "Terminated",
17:    16 => "Stack fault",
18:    17 => "Child exited",
19:    18 => "Continued",
20:    19 => "Stopped (signal)",
21:    20 => "Stopped",
22:    21 => "Stopped (tty input)",
23:    22 => "Stopped (tty output)",
24:    24 => "CPU time limit exceeded",
25:    25 => "File size limit exceeded",
26:    26 => "Virtual timer expired",
27:    27 => "Profiling timer expired",
28:    28 => "Window changed",
29:    29 => "I/O possible",
30:    30 => "Power failure",
31:    31 => "Bad system call",
32: );
```