```cpp
 1: // $Id: sigtoperl.cpp,v 1.4 2020-11-22 17:33:33-08 - - $
 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 unix6.lt.ucsc.edu
 2: # sigtoperl: Wed Feb 17 18:07:47 2021
 3: my %strsignal = (
 4:      0 => "Unknown signal 0",
 5:      1 => "Hangup",
 6:      2 => "Interrupt",
 7:      3 => "Quit",
 8:      4 => "Illegal instruction",
 9:      5 => "Trace/breakpoint trap",
10:      6 => "Aborted",
11:      7 => "Bus error",
12:      8 => "Floating point exception",
13:      9 => "Killed",
14:     10 => "User defined signal 1",
15:     11 => "Segmentation fault",
16:     12 => "User defined signal 2",
17:     13 => "Broken pipe",
18:     14 => "Alarm clock",
19:     15 => "Terminated",
20:     16 => "Stack fault",
21:     17 => "Child exited",
22:     18 => "Continued",
23:     19 => "Stopped (signal)",
24:     20 => "Stopped",
25:     21 => "Stopped (tty input)",
26:     22 => "Stopped (tty output)",
27:     23 => "Urgent I/O condition",
28:     24 => "CPU time limit exceeded",
29:     25 => "File size limit exceeded",
30:     26 => "Virtual timer expired",
31:     27 => "Profiling timer expired",
32:     28 => "Window changed",
33:     29 => "I/O possible",
34:     30 => "Power failure",
35:     31 => "Bad system call",
36:     32 => "Unknown signal 32",
37:     33 => "Unknown signal 33",
38:     34 => "Real-time signal 0",
39:     35 => "Real-time signal 1",
40:     36 => "Real-time signal 2",
41:     37 => "Real-time signal 3",
42:     38 => "Real-time signal 4",
43:     39 => "Real-time signal 5",
44:     40 => "Real-time signal 6",
45:     41 => "Real-time signal 7",
46:     42 => "Real-time signal 8",
47:     43 => "Real-time signal 9",
48:     44 => "Real-time signal 10",
49:     45 => "Real-time signal 11",
50:     46 => "Real-time signal 12",
51:     47 => "Real-time signal 13",
52:     48 => "Real-time signal 14",
53:     49 => "Real-time signal 15",
54:     50 => "Real-time signal 16",
55:     51 => "Real-time signal 17",
56:     52 => "Real-time signal 18",
57:     53 => "Real-time signal 19",
58:     54 => "Real-time signal 20",
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 59:     55 => "Real-time signal 21",
 60:     56 => "Real-time signal 22",
 61:     57 => "Real-time signal 23",
 62:     58 => "Real-time signal 24",
 63:     59 => "Real-time signal 25",
 64:     60 => "Real-time signal 26",
 65:     61 => "Real-time signal 27",
 66:     62 => "Real-time signal 28",
 67:     63 => "Real-time signal 29",
 68:     64 => "Real-time signal 30",
 69:     65 => "Unknown signal 65",
 70:     66 => "Unknown signal 66",
 71:     67 => "Unknown signal 67",
 72:     68 => "Unknown signal 68",
 73:     69 => "Unknown signal 69",
 74:     70 => "Unknown signal 70",
 75:     71 => "Unknown signal 71",
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 77:     73 => "Unknown signal 73",
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 79:     75 => "Unknown signal 75",
 80:     76 => "Unknown signal 76",
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 84:     80 => "Unknown signal 80",
 85:     81 => "Unknown signal 81",
 86:     82 => "Unknown signal 82",
 87:     83 => "Unknown signal 83",
 88:     84 => "Unknown signal 84",
 89:     85 => "Unknown signal 85",
 90:     86 => "Unknown signal 86",
 91:     87 => "Unknown signal 87",
 92:     88 => "Unknown signal 88",
 93:     89 => "Unknown signal 89",
 94:     90 => "Unknown signal 90",
 95:     91 => "Unknown signal 91",
 96:     92 => "Unknown signal 92",
 97:     93 => "Unknown signal 93",
 98:     94 => "Unknown signal 94",
 99:     95 => "Unknown signal 95",
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105:    101 => "Unknown signal 101",
106:    102 => "Unknown signal 102",
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109:    105 => "Unknown signal 105",
110:    106 => "Unknown signal 106",
111:    107 => "Unknown signal 107",
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115:    111 => "Unknown signal 111",
116:    112 => "Unknown signal 112",
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117:    113 => "Unknown signal 113",
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225:    221 => "Unknown signal 221",
226:    222 => "Unknown signal 222",
227:    223 => "Unknown signal 223",
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254:    250 => "Unknown signal 250",
255:    251 => "Unknown signal 251",
256:    252 => "Unknown signal 252",
257:    253 => "Unknown signal 253",
258:    254 => "Unknown signal 254",
259: );
```