

< Return to Classroom

Process Monitor

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REVIEW
                                             CODE REVIEW 5
                                                 HISTORY
▶ CppND-System-Monitor/src/linux_parser.cpp
▶ CppND-System-Monitor/src/system.cpp
▼ CppND-System-Monitor/src/process.cpp
     1 #include <unistd.h>
     2 #include <cctype>
     3 #include <sstream>
     4 #include <string>
     5 #include <vector>
     7 #include "process.h"
     8 #include "linux_parser.h"
    10 using std::string;
    11 using std::to_string;
    12 using std∷vector;
    14 Process::Process(int pid) {
        this->pid = pid;
    15
           this->cpu_util = CpuUtilization();
    16
    17 }
    19 // TODO: Return this process's ID
    20 int Process::Pid() { return pid; }
    22 // TODO: Return this process's CPU utilization
    23 float Process::CpuUtilization() {
           float active = (float)LinuxParser::ActiveJiffies(this->pid);
    24
           float total = (float)LinuxParser::Jiffies();
          this->cpu_util = active/total;
          return this->cpu_util;
    27
    28 }
    29
    30 // TODO: Return the command that generated this process
    31 string Process::Command() { return LinuxParser::Command(pid); }
```

```
33 // TODO: Return this process's memory utilization
34 string Process::Ram() { return std::to_string((int)(LinuxParser::Ram(pid)/1000)); }
```

SUGGESTION

You can be more precise here while converting as 1 Mb = 1024 kb

```
35
36 // TODO: Return the user (name) that generated this process
37 string Process::User() { return LinuxParser::User(pid); }
38
39 // TODO: Return the age of this process (in seconds)
40 long int Process::UpTime() { return LinuxParser::UpTime(pid); }
41
42 // TODO: Overload the "less than" comparison operator for Process objects
43 // REMOVE: [[maybe_unused]] once you define the function
44 bool Process::operator<(Process const& rhs) const {
45     return this->cpu_util > rhs.cpu_util;
46 }
```

- ▶ CppND-System-Monitor/src/format.cpp
- ▶ CppND-System-Monitor/src/test07.cpp
- ▶ CppND-System-Monitor/src/test06.cpp
- ▶ CppND-System-Monitor/src/test05.cpp
- ▶ CppND-System-Monitor/src/test04.cpp
- ▶ CppND-System-Monitor/src/test03.cpp
- ▶ CppND-System-Monitor/src/test02.cpp
- ▶ CppND-System-Monitor/src/test01.cpp
- ▶ CppND-System-Monitor/src/test00.cpp
- ▶ CppND-System-Monitor/src/processor.cpp
- ▶ CppND-System-Monitor/src/ncurses_display.cpp
- ▶ CppND-System-Monitor/src/my_utility.h
- ► CppND-System-Monitor/src/my_utility.cpp
- ▶ CppND-System-Monitor/src/main.cpp
- ▶ CppND-System-Monitor/include/system.h
- ▶ CppND-System-Monitor/include/processor.h

▶ CppND-System-Monitor/include/process.h
▶ CppND-System-Monitor/include/ncurses_display.h
▶ CppND-System-Monitor/include/linux_parser.h
▶ CppND-System-Monitor/include/format.h
▶ CppND-System-Monitor/README.md
▶ CppND-System-Monitor/Makefile
▶ CppND-System-Monitor/CMakeLists.txt
Learn the best practices for revising and resubmitting your project.
RETURN TO PATH