

```
1: // Copyright 2017 Patrick Muldoon
2: #include <vector>
3: #include <iostream>
4: #include <fstream>
5: #include <string>
6: #include "intouch.hpp"
7:
8: int main(int argc, char* argv[]) {
9:     if(argc != 2) {
10:         throw std::runtime_error("Wrong number of arguments.");
11:         std::cout << "Usage " << argv[0] << "logfile" << std::end
1;
12:         exit(1);
13:     }
14:     std::string logfile = argv[1];
15:
16:     std::ifstream fin;
17:     fin.open(logfile);
18:     if(fin.fail()) {
19:         std::cerr << "Error opening file " << logfile << std::end
1;
20:         exit(1);
21:     }
22:
23:     std::string outfile(argv[1]);
24:     outfile += ".rpt";
25:     std::ofstream fout;
26:     fout.open(outfile.c_str());
27:     if(fout.fail()) {
28:         std::cerr << "Error opening output file" << outfile << st
d::endl;
29:         exit(1);
30:     }
31:
32:     unsigned int lines_scanned = 0, boots_started = 0, boots_finished
= 0;
33:     unsigned int services_started = 0, services_completed = 0;
34:     int count = 0, counter = 0;
35:     std::string line;
36:     std::vector<Intouch> bootups;
37:     std::vector<Softload> softloads;
38:     int size = 0;
39:
40:     while(std::getline(fin, line)) {
41:         ++lines_scanned;
42:         if(regex_match(line, StartRegex)) {
43:             ++boots_started;
44:             Intouch it(line, logfile, lines_scanned);
45:             bootups.push_back(it);
46:             while(std::getline(fin, line) && count == 0){
47:                 ++lines_scanned;
48:                 if(regex_match(line, StartRegex)){
49:                     ++boots_started;
50:                     Intouch its(line, logfile, lines_
scanned);
51:                     bootups.push_back(its);
52:                 }else if(regex_match(line, ServiceStart))
{
53:                     ++services_started;
54:                     Services s(line, logfile, lines_s
canned);
55:                     bootups.back().a.push_back(s);
56:                 }else if(regex_match(line, ServiceSuccess
))){
57:                     ++services_completed;
```

```
58:                                     std::string compare;
59:                                     boost::smatch sm;
60:                                     boost::regex_match(line, sm, Serv
iceSuccess);
61:                                     compare = sm[1];
62:                                     for(int i = 0; i < bootups.back()
.a.size(); ++i){
63:                                     if(bootups.back().a[i].ge
tServiceName() == compare){
64:                                     bootups.back().a.
at(i).ServiceBoot(line, lines_scanned);
65:                                     }
66:                                     }
67:                                     }else if(regex_match(line, SucceededRegex
)) {
68:                                     ++boots_finished;
69:                                     bootups.back().BootSuccess(line,
lines_scanned);
70:                                     ++lines_scanned;
71:                                     count++;
72:                                     services_started = 24;
73:                                     services_completed =24;
74:                                     }
75:                                     }
76:                                     }else if(regex_match(line, SucceededRegex)) {
77:                                     ++boots_finished;
78:                                     bootups.back().BootSuccess(line,
lines_scanned);
79:                                     ++lines_scanned;
80:                                     count++;
81:                                     } else if(regex_match(line, SoftLoadBegin)){
82:                                     std::cout << "softload start\n";
83:                                     Softload soft(line, logfile, lines_scanned);
84:                                     softloads.push_back(soft);
85:                                     while(softloads.back().getSuccess() == false){
86:                                     std::getline(fin, line);
87:                                     ++lines_scanned;
88:                                     if(regex_match(line, Original)){
89:                                     softloads.back().Originalver(line
);
90:                                     } else if(regex_match(line, New)){
91:                                     softloads.back().Newver(line);
92:                                     } else if(regex_match(line, SoftLoadEnd))
{
93:                                     softloads.back().SoftloadSuccess(
line, lines_scanned);
94:                                     counter++;
95:                                     }
96:                                     }
97:                                     }
98:
99:                                     count = 0;
100:                                }
101:                                std::cout << "here\n";
102:                                for(unsigned int j = 0; j < bootups.size()-1; ++j) {
103:                                    fout << bootups[j] << std::endl;
104:                                    fout << "Services" << std::endl;
105:                                    if(bootups[j].a.empty()){
106:                                        std::cout << "no services\n";
107:                                        fout << "There is no services due to an incomplet
e boot\n";
108:                                    }
109:                                    else{
110:                                        for(unsigned int i = 0; i < bootups[j].a.size();
++i){
```

```
111:                                fout << bootups[j].a[i];
112:                                }
113:
114:                                fout << "\t*** Services not successfully started:
";
115:                                for(unsigned int i = 0; i < bootups[j].a.size()-1
; ++i){
116:                                    if(bootups[j].a[i].getSuccess() == false)
{
117:                                        fout << bootups[j].a[i].getService
eName();
118:                                        }
119:                                    }
120:                                }
121:                                if(size < counter){
122:                                    if(bootups[j].getEndLine() < softloads.at(size).g
etStartLine()){
123:                                        fout << std::endl;
124:                                        fout << "=== Softload ===" << std::endl;
125:                                        fout << softloads.at(size).getStartLine()
<< "(" << softloads.at(size).getFileName()
126:                                        << ")" << " : " << softloads.at(size).get
StartTime() << " Softload Start" << std::endl;
127:                                        fout << "\tOriginal Version ==> " << soft
loads.at(size).getOriginal() << std::endl;
128:                                        fout << "\tNew Version ==> " << softloads
.at(size).getNew() << std::endl;
129:                                        fout << "\tElapsed Time ==> " << std::end
l;
130:                                        fout << softloads.at(size).getEndLine() <
< "(" << softloads.at(size).getFileName()
131:                                        << ")" << " : " << softloads.at(size).get
EndTime() << "Softload Completed" << std::endl;
132:                                        size++;
133:                                    }
134:                                }
135:                                fout << std::endl;
136:                            }
137:                            fout << bootups[bootups.size() - 1] << std::endl;
138:                            fout << "Services" << std::endl;
139:                            for(unsigned int i = 0; i < bootups[bootups.size() -1].a.size();
++i){
140:                                fout << bootups[bootups.size()-1].a[i];
141:                            }
142:                            fout << "\t*** Services not successfully started: ";
143:                            for(unsigned int i = 0; i < bootups[bootups.size()-1].a.size(); +
+i){
144:                                if(bootups[bootups.size()-1].a[i].getSuccess() == false){
145:                                    fout << bootups[bootups.size()-1].a[i].getService
Name();
146:                                    }
147:                                }
148:                            fin.close();
149:                            fout.close();
150: }
```