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1: // Copyright 2017 Patrick Muldoon
2: #ifndef INTOUCH_HPP_
3: #define INTOUCH_HPP_
4:
5: #include <boost/regex.hpp>
6: #include <iostream>
7: #include <string>
8: #include <vector>
9:
10: const std::string ServerStart =
11:     "(\\d{4})\\-(\\d{2})\\-(\\d{2}) (\\d{2}):\\d{2}:\\d{2}: \\(log.c.16
6\\) server started\\s*";
12:
13: const std::string StartupSucceeded =
14:     "(\\d{4})\\-(\\d{2})\\-(\\d{2}) (\\d{2}):\\d{2}:\\d{2})\\.\\(\\d{3}\\).*
oejs.AbstractConnector:Started"
15:     " SelectChannelConnector.*";
16:
17: const std::string ServiceStarted =
18:     "^Starting Service\\.\\s\\s(\\w+)\\s(1\\.\\[0-9\\]|1\\.\\[0-9]\\\\.\\[0-9\\]).*";
19:
20: const std::string SoftloadStart =
21:     "^([A-Z?][a-z]{2})\\s(\\d{2})\\s(\\d{2}):\\d{2}:\\d{2}).*SOFTLOADSERV
ICE;Install started.*";
22:
23: const std::string SoftloadComplete =
24:     "^([A-Z?][a-z]{2})\\s(\\d{2})\\s(\\d{2}):\\d{2}:\\d{2}).* ExitValue f
rom install command : 0.*";
25:
26: const std::string ServiceSucceeded =
27:     "^Service started successfully\\.\\s\\s(\\w+)\\s(1\\.\\[0-9\\]|1\\.\\[0-9]\\\\.\\[0-
9]\\)\\s(\\d+\\)\\s(\\w+)\\s\\s.*";
28:
29: const std::string OriginalVersion = "^([A-Z?][a-z]{2})\\s(\\d{2})\\s(\\d{
2}):\\d{2}:\\d{2}).*intouch-"
30:     "platform-base-(\\d)\\.(\\d)\\.(\\d)\\-(\\w+\\.\\d{2}|\\d{1,3})\\.armv6je
l_vfp.rpm.*rpm to rollback list";
31:
32: const std::string NewVersion = "^([A-Z?][a-z]{2})\\s(\\d{2})\\s(\\d{2}):
(\\d{2}):\\d{2}).*intouch-platform"
33:     "-base-(\\d)\\.(\\d)\\.(\\d)\\-(\\w+\\.\\d{2}|\\d{1,3}).*armv6jel_vfp.rpm
\\s\\s\\.\\.\\.";
34:
35: const boost::regex StartRegex(ServerStart);
36: const boost::regex SucceededRegex(StartupSucceeded);
37: const boost::regex ServiceStartRegex(ServiceStarted);
38: const boost::regex ServiceSuccessRegex(ServiceSucceeded);
39: const boost::regex SoftLoadBeginRegex(SoftloadStart);
40: const boost::regex SoftLoadEndRegex(SoftloadComplete);
41: const boost::regex OriginalRegex(OriginalVersion);
42: const boost::regex NewRegex(NewVersion);
43:
44: class Services {
45: public:
46:     Services(std::string start_line, std::string _filename, unsigned
int line_number);
47:     void ServiceBoot(std::string successful_line, unsigned int line_n
umber);
48:     friend std::ostream& operator<<(std::ostream &out, const Services
&service);
49:     std::string getServiceName() {return service_name;};
50:     bool getSuccess() {return success;};
51: private:
52:     std::string filename, service_name, boot_time;
53:     bool success;
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54:         unsigned int start_line_number, end_line_number;
55:     };
56:
57:     class Intouch{
58:     public:
59:         Intouch(std::string start_line, std::string _filename, unsigned i
nt line_number);
60:         void BootSuccess(std::string successful_line, unsigned int line_n
umber);
61:         friend std::ostream& operator<< (std::ostream &out, const Intouch
&it);
62:         std::vector<Services> a;
63:
64:         bool getSuccess() {return success;};
65:         unsigned int getStartLine() {return start_line_number;};
66:         unsigned int getEndLine() {return end_line_number;};
67:     private:
68:         unsigned int Time_Elapsed();
69:         std::string filename, start_time, end_time;
70:         bool success;
71:         unsigned int start_line_number, end_line_number, boot_time;
72:     };
73:
74:     class Softload {
75:     public:
76:         Softload(std::string start_line, std::string _filename, unsigned
int line_number);
77:         void Originalver(std::string successful_line);
78:         void Newver(std::string successful_line);
79:         void SoftloadSuccess(std::string successful_line, unsigned int li
ne_number);
80:         unsigned int getStartLine() {return start_line_number;};
81:         unsigned int getEndLine() {return end_line_number;};
82:         std::string getStartTime() {return start_time_soft;};
83:         std::string getEndTime() {return end_time_soft;};
84:         std::string getFileName() {return filename;};
85:         std::string getOriginal() {return oldSoftLoad;};
86:         std::string getNew() {return newSoftLoad;};
87:         std::string getBegin() {return begin;};
88:         std::string getStop() {return stop;};
89:         bool getSuccess() {return success;};
90:     private:
91:         unsigned int Time();
92:         std::string filename, start_time_soft, end_time_soft;
93:         std::string begin, stop;
94:         std::string oldSoftLoad, newSoftLoad;
95:         bool success;
96:         unsigned int start_line_number, end_line_number, boot_time;
97:     };
98:
99: #endif
```