```
1 #!/usr/bin/env perl
2 # $Id: Sreview,v 1.8 2012/08/07 22:33:16 murakami Exp murakami $
3 # See perl pod documentation at the end of this file
4
5 use strict;
6 use warnings;
7 use Pod::Usage;
8 use POSIX;
9 use Time::Local qw(timelocal);
10 use Getopt::Long;
11
12 use constant PROGRAM => "Sreview";
13 use constant VERSION => "1.3";
16 ##
17 ## PROTOTYPES
18 ##
19 ##:....
20
21 sub parse args;
22 sub error;
23
25 ##
26 ## GLOBALS
27 ##
28 ##....
29
30 my @OBJECTS;
31 my $CMD;
32 my $ARG;
33 my \$ERRORS = 0;
34 my \$RECURSIVE = 0;
35 my $STATUS;
36 my DEBUG = 0;
37 my VERBOSE = 0;
38
40 ##
41 ## BEGIN
42 ##
44
45 if (! parse_args())
46
   {
47
     error("failed to parse arguments");
48
    exit(1);
49
   }
50
51 ## Exit if $DEBUG is set before actually modifying files
52 if ($DEBUG)
53
   {
54
    exit(0);
55
   }
56
57 # Set scheme info on all requested objects
```

```
58 $CMD = 'Sscheme -w -val Admin.Last Review Time::[sysdate]';
59
60 if ($RECURSIVE)
61
    {
      $CMD .= " -R";
62
63
    }
64
65 my $0BJSTR = join(' ', @0BJECTS);
                                        # If wildcard
66 if (\$0BJSTR =~ m/\*/)
67
68
      printf("DEBUG: %s\n", $0BJSTR) if ($VERBOSE);
69
      SOBJSTR =  s/*/\/*/g;
                                        # Escape wildcard
      printf("DEBUG: %s\n", $0BJSTR) if ($VERBOSE);
70
71
    }
72
73 $CMD .= sprintf(" %s", $0BJSTR);
74
75 printf("DEBUG: %s\n", $CMD) if ($VERBOSE);
76
77 $STATUS = system($CMD);
78
79 if (($STATUS >> 8) != 0)
80
    {
      $ERRORS++;
81
82
    }
83
84 if ($ERRORS)
85
    {
86
      exit(1);
87
    }
88
89 exit(0);
92 ##
93 ## SUBROUTINES
94 ##
95 ##:....
96
98 #
99 # NAME
        debug -- print debug information
100 #
101 #
102 # SYNOPSIS
        _debug($fmt, $arg1[, $arg2]);
103 #
104 #
105 # DESCRIPTION
106 #
        If $VERBOSE is set to 1, prints $fmt and optional $args using printf to
107 #
        STDOUT.
108 #
109 # RETURN VALUES
110 #
       None.
111 #
112 #.....
113 sub debug
114 {
```

```
115
     my $fmt = shift(@ );
116
     my @args = @ ;
117
    my $msg;
118
     return if (! $VERBOSE);
119
120
     $fmt = sprintf("DEBUG: %s%s", $fmt, ($fmt !~ /\n$/ ? "\n" : ""));
121
122
123
     $msg = sprintf($fmt, @args);
124
125
     printf($msg);
126 }
127
129 #
130 # NAME
131 #
        _error -- print error information
132 #
133 # SYNOPSIS
134 #
        _error($fmt, $arg1[, $arg2]);
135 #
136 # DESCRIPTION
137 #
        Prints $fmt and options $args using printf to STDERR.
138 #
139 # RETURN VALUES
140 #
        None.
141 #
142 #.....
143 sub error
144 {
145
    my $fmt = shift(@ );
146
    my @args = @ ;
147
    my $msg;
148
149
    fmt = sprintf("Sreview ERROR: %s%s", $fmt, ($fmt !~ /\n$/ ? "\n" : ""));
150
151
    $msg = sprintf($fmt, @args);
152
153
    printf(STDERR $msg);
154 }
155
157 #
158 # NAME
159 #
        parse_args -- parse command line arguments
160 #
161 # SYNOPSIS
162 #
        $status = parse args();
163 #
164 # DESCRIPTION
165 #
         The parse args subroutine parses command line arguments provided by the
166 #
         @ARGV array.
167 #
168 # RETURN VALUES
169 #
        Upon successful completion a value of 1 is returned. Otherwise, a value
170 #
         of 0 is returned.
171 #
```

```
172 #.....
173 sub parse_args
174 {
175
    my %args;
176
    my $arg;
177
    my $status;
178
179
    GetOptions
180
      (
181
        \%args,
        "debug",
182
        "verbose",
183
        "recursive|r",
184
        "version|v" => sub { printf("%s %s\n", PROGRAM, VERSION); exit(0); },
185
186
        "help|h" => sub { pod2usage(-exitval => 0, -verbose => 1); },
187
      ) or pod2usage(2);
188
189
    # Args are objects/collections
190
    if ($\#ARGV == -1)
191
      {
        error("must specifiy one or more objects or collections");
192
193
        return(0);
194
        pod2usage(2);
195
      }
196
197
    push(@OBJECTS, @ARGV);
198
199
    # Parse remaining arguments
200
    if (exists($args{verbose}))
201
      {
202
        VERBOSE = 1;
203
      }
204
205
    if (exists($args{debug}))
206
      {
207
        DEBUG = 1;
208
      }
209
210
    if (exists($args{recursive}))
211
      {
212
        $RECURSIVE = 1;
213
      }
214
215
    return(1);
216 }
217
218
   ___END
219
220
222 ##
223 ## POD DOCUMENTATION
224 ##
225 ## perldoc Sreview
226 ##
228
```

```
229 = pod
230
231 =head1 NAME
232
233 B<Sreview> - set Admin.Last Review Time attribute.
235 =head1 SYNOPSIS
236
237 S<B<Sreview [options] objects|collections>>
238
239 =head1 DESCRIPTION
240
241 B<Sreview> is the command line interface to set I<"Last Review Time"> on
242 Storage Lifecycle Management (SLM) objects. The B<Sreview> command updates the
243 I<"Admin"> Scheme which is a System Schmeme that is automatically applied during
244 ingestion of objects into SLM. The B<Sreview> command requires B<objects> or
245 B<collections> to act upon.
246
247 = head1 objects | collections
248
249 The B<objects|collections> parameter is a required parameter. More than
250 one B<object> and/or B<collection> can be specified. The
251 B<objects | collections > parameter specifies the SLM objects and/or
252 collections to act upon.
253
254 =head1 OPTIONS
255
256 The B<Sreview> command allows a number of options when setting I<"Admin"> Scheme
257 attribute I<"Last Review Time"> and includes the B<-r> option
258 which causes the attributes to be set recursively on objects within the
259 collection[s].
260
261 The options are as follows:
262
263 = over 4
264
265 =item B<-R>, B<-recursive>
267 Specifies that the operation be applied recursively on objects within the
268 collection[s]. The B<-R> option only works when collections are specified.
269
270 =item B<-help>
271
272 Print this help message and exit.
273
274 =item B<-version>
275
276 Print the program version and exit.
277
278 =item B<-verbose>
279
280 Print more verbose output during the execution of B<Sreview>.
281
282 = back
283
284 =head1 EXAMPLES
285
```

```
286 =over 4
287
288 = item Example 1 Setting Last Review Time for a single object.
289
290 % S<Sreview MyObj>
291
292 This command will set the Last Review Time for the object MyObj in the current
293 collection to the current date and time.
294
295 The equivalent native Sscheme command is:
297 % S<Sscheme -w -val 'Admin.Last Review Time::[sysdate]' MyObj>
298
299 = item Example 2 Setting Last Review Time for multiple objects.
300
301 % S<Sreview MyObj MyObj2 ...>
302
303 This command will set the Last Review Time for the objects listed in the current
304 collection to the current date and time.
305
306 The equivalent native Sscheme command is:
307
308 % S<Sscheme -w -val 'Admin.Last Review Time::[sysdate]' My0bj My0bj2 ...>
309
310 =item Example 3 Setting Last_Review_Time recursively on a collection
311
312 % S<Sreview -R MyCol>
313
314 This command will set the Last Review Time for the collection MyCol and all
315 objects in the collection recursively to the current date and time.
317 The equivalent native Sscheme command is:
319 % S<Sscheme -w -val 'Admin.Last Review Time::[sysdate]' MyObj>
320
321 = back
322
323 =head1 SEE ALS0
324
325 B<Sscheme(1)>, B<Sretain(1)>
326
327 =head1 RELEASE NOTES
328
329 = over 4
330
331 =item Version 1.1 - June 28, 2012 - LAM@HTL
332
333 Initial release.
334
335 Stripped down version of Sretain to allow setting just the
    Admin.Last Review Time.
336
337 =item Version 1.2 - June 28, 2012 - LAM@HTL
338
339 Modified script to submit one 'Sscheme -w' command for all objects specified.
340
341 = item Version 1.3 - August 7, 2012 - LAM@HTL
```

342

- 343 Modified help and man page to specify "-R" instead of "-r" for recursion to match other Scommands.
- **344** Modified to always escape any asterisk wildcard characters in the objects | collections argument.

345

346 = back

347

348 = cut

349