

```
1 #!/usr/bin/env python
2 try:
3     import os, glob, sys, getopt
4     import tempfile
5     from SrbRegisterUtil import execMe,execSMe,PyIsSinit,CheckPyVersion
6 except:
7     raise "Check you local Python Version. A minimum Python version required"
8
9 """ A script that searches Metadata information from MCAT """
10
11
12 SCHEME_NAME = "Name_Value"
13
14 def usage():
15     print """SrbTarMetaSearch.py: Recursively search for Data Objects that
16 met your search criteria
17 usage: SrbTarMetaSearch.py [option] [value] [collection]
18
19 option:
20 --exp : Experiment Number
21 --dateRun: Date Run (e.g. 2012062200)
22 --dateValid: Date Valid (e.g. 2012062200)
23 -h: This help
24 --version: Print the script version
25
26 value:
27 Valid value for your search term
28
29 collection:
30 SRB Collection to begin the search in (e.g.
31 /home/margom.nirvana/Test)
32
33     Examples
34     SrbTarMetaSearch.py -exp 310 /home/martin.nirvana/Test
35     SrbTarMetaSearch.py -dateRun 2012062200 /home/martin.nirvana/Test
36
37     """
38 # end function
39
40
41 def version():
42     print """$Header:
43 /cvs_repository/customers/HPCMP/testbed/NavyPilot/SrbTarMetaSearch.py,v 1.3
44 2013/04/11 17:18:51 martin Exp $"""
45
46 # end function
47
48
49 def main():
50     if not CheckPyVersion():
51         sys.exit(1)
52
53     directory = '.'
54     term = ""
55     searchTerm = ""
```

```
54
55     try:
56         opts,args = getopt.getopt(sys.argv[1:], "hv", ['version', 'exp',
'dateRun', 'dateValid'])
57     except getopt.GetoptError, err:
58         print str(err)
59         usage()
60         sys.exit(2)
61
62     for arg,val in opts:
63         if arg == "-h":
64             usage()
65             sys.exit()
66         elif arg == "--version" or arg == "-v":
67             version()
68             sys.exit()
69         elif arg == "--exp":
70             searchTerm = "ExperimentNum"
71         elif arg == "--dateRun":
72             searchTerm = "DateRun"
73         elif arg == "--dateValid":
74             searchTerm = "DateValid"
75         else:
76             print "Invalid argument."
77             usage()
78             sys.exit()
79
80
81     #end for
82
83
84     if (PyIsSinit()):
85         print "Sinit is OK..."
86         status = 0
87     else:
88         print "No SRB session detected. Have you run Sinit yet?"
89         sys.exit(2)
90
91     if len(args) < 2 or len(args) > 2 or searchTerm == "":
92         usage()
93         sys.exit()
94     else:
95
96         # Construct command string cmd
97         #
98
99         if len(args) == 2:
100             directory = args[1]
101             term = args[0]
102
103             ## Truncate hhhmsss from date string and add wildcard
104             if (searchTerm == 'DateRun'):
105                 term = '*' + term[0:8] + '*'
106             elif (searchTerm == 'DateValid'):
107                 term = '*' + term[0:8] + '*'
108
109
```

```
110         cmd = "Sls -R -policy \"{0}.{1} like {2} AND {3}.{4} like {5}\"  
        {6}".format(SCHEME_NAME, 'Name', searchTerm, SCHEME_NAME, 'Value', term,  
        directory)  
111  
112         (rc,out) = execSMe(cmd)  
113         print out  
114  
115         if (rc != 0):  
116             if len(args) == 2:  
117                 print "Did you use the correct Collection name?"  
118  
119                 print "Error Searching"  
120                 rc = -1  
121         #end if  
122  
123  
124 #end of function  
125  
126 if __name__=="__main__":  
127     main()  
128  
129
```