

```

1 2016.11.28 17:44:29 - =====
2 2016.11.28 17:44:29 - Starting sadm_lib_test.sh - Version 1.8 on aixb50
3 2016.11.28 17:44:29 - AIX AIX 5.3 IBM_AIX
4 2016.11.28 17:44:29 - =====
5 2016.11.28 17:44:29 - ...
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

```

FUNCTIONS AVAILABLE IN SADM_LIB_STD.SH (Part I)		
VARIABLE AVAILABLE TO USE	DESCRIPTION	RETURN VALUE PREFIX & SUFFIX BY 3 DOTS
\$(sadm_get_release)	SADMIN Release Number (XX.XX)	...00.81...
\$(sadm_get_ostype)	OS Type (Always in Uppercase) (LINUX,AIX,...)	...AIX...
\$(sadm_get_osversion)	OS Version (Ex: 7.2, 6.5)	...5.3...
\$(sadm_get_osmajorversion)	OS Major Version (Ex 7, 6)	...5...
\$(sadm_get_osminorversion)	OS Minor Version (Ex 2, 3)	...3...
\$(sadm_get_osname)	OS Distribution (Always in Uppercase) (Ex:REDHAT,CENTOS,UBUNTU)	...AIX...
\$(sadm_get_oscodename)	OS Project Code Name	...IBM_AIX...
\$(sadm_get_kernel_version)	OS Running Kernel Version (Ex: 3.10.0-229.20.1.el7.x86_64)	...3...
\$(sadm_get_kernel_bitmode)	OS Kernel Bit Mode is a 32 or 64 Bits	...32...
\$(sadm_get_hostname)	Host Name	...aixb50...
\$(sadm_get_host_ip)	Host IP Address	...192.168.1.102...
\$(sadm_get_domainname)	Host Domain Name	...maison.ca...
\$(sadm_get_epoch_time)	Get Current Epoch Time	...1480373071...
\$(sadm_epoch_to_date 1480373071)	Convert epoch time to date (YYYY.MM.DD HH:MM:SS)	...2016.11.28 17:44:31...
\$(sadm_date_to_epoch '2016.11.28 17:44:31')	Convert Date to epoch time (YYYY.MM.DD HH:MM:SS)	...1480373071...
\$(sadm_elapse_time '2016.01.30 10:00:44' '2016.01.30 10:00:03')	Return Elapse Time between two timestamp	...00:00:41...
sadm_toupper string	Return the string it receive in uppercase	...STRING...
sadm_tolower STRING	Return the string it receive in lowercase	...string...
sadm_is_root	True if script is running as root, False if not.	...true...

Press [ENTER] to Continue

```

35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

```

FUNCTIONS AVAILABLE IN SADM_LIB_STD.SH (Part II)		
VARIABLE AVAILABLE TO USE	DESCRIPTION	RETURN VALUE PREFIX & SUFFIX BY 3 DOTS
sadm_start	Start and initialize sadm environment If SADMIN root directory is not /sadmin, make sure the SADMIN Env. variable is set to proper directory. Please call this function when your script is starting What this function will do for us : 1) Make sure All SADM directories and sub-directories exist and they have proper permissions. 2) Make sure the log file exist with proper permission (/sadmin/log/aixb50_sadm_lib_test.log) 3) Make sure the Return Code History Log exist and have the right permission 4) Create script PID file - If it exist and user want to run only 1 copy of script, then abort 5) Add line in the [R]eturn [C]ode [H]istory file stating script is started (Code 2) 6) Write HostName - Script name and version - O/S Name and version to the Log file (SADM_LOG)	
sadm_stop 0	Accept one parameter - Either 0 (Successfull) or non-zero (Error Encountered) Please call this function just before your script end What this function do. 1) If Exit Code is not zero, change it to 1. 2) Get Actual Time and Calculate the Execution Time. 3) Writing the Script Footer in the Log (Script Return code, Execution Time,...) 4) Update the RCH File (Start/End/Elapse Time and the Result Code) 5) Trim The RCH File Based on User choice in sadmin.cfg 6) Write to Log the user mail alerting type choose by user (sadmin.cfg) 7) Trim the Log based on user selection in sadmin.cfg 8) Send Email to sysadmin (if user selected that option in sadmin.cfg) 9) Delete the PID File of the script (SADM_PID_FILE) 10) Delete the Uers 3 TMP Files (SADM_TMP_FILE1, SADM_TMP_FILE2, SADM_TMP_FILE3)	

```

65 =====
66 Press [ENTER] to Continue
67
68
69 =====
70 FUNCTIONS AVAILABLE IN SADM_LIB_STD.SH (PART III)
71
72 VARIABLE AVAILABLE TO USE DESCRIPTION RETURN VALUE
73 PREFIX & SUFFIX BY 3 DOTS
74 =====
75 $(sadm_server_ips) All Network Interfaces IP Address and Netmask use on server ...
76 ...en0|192.168.1.102|255.255.255.0|00:04:ac:17:9c:b3...
77 $(sadm_server_type) Host is Physical or Virtual (P/V) ...P...
78 $(sadm_server_model) Server model is (Ex: OptiPlex 755) ...7046-B50...
79 $(sadm_server_serial) Server serial number is (Ex: 4S7GYF1) ...01102DD2F...
80 $(sadm_server_memory) Server total memory in MB (Ex: 3790) ...1024...
81 $(sadm_server_hardware_bitmode) Server CPU Hardware is a 32 or 64 bits capable ...32...
82 $(sadm_server_nb_cpu) Number of CPU on the server (Ex: 4) ...1...
83 $(sadm_server_nb_socket) Number of socket on the server (Ex: 2) ...1...
84 $(sadm_server_core_per_socket) Number of Core per Socket (Ex: 4) ...1...
85 $(sadm_server_thread_per_core) Number of Thread per Core ...1...
86 $(sadm_server_cpu_speed) Server CPU Speed in MHZ ...375...
87 $(sadm_server_disks) Server disks list (MB) (Ex: DISKNAME|SIZE,DISKNAME|SIZE,...) ...hdisk0|34715,hdisk1|34715...
88 $(sadm_server_vg) Server vg(s) list (MB) (Ex: VGNAME|SIZE|USED|FREE,...) ...rootvg|69376|67200|2176...
89
90 =====
91 Press [ENTER] to Continue
92
93 SADM_DEBUG_LEVEL 5 Information
94 -- SADM_MAIL_ADDR=duplessis.jacques@gmail.com
95 -- SADM_CIE_NAME=S.A.D.M.
96 -- SADM_MAIL_TYPE=1
97 -- SADM_SERVER=holmes.maison.ca
98 -- SADM_DOMAIN=maison.ca
99 -- SADM_USER=sadmin
100 -- SADM_GROUP=sadmin
101 -- SADM_WWW_USER=apache
102 -- SADM_WWW_GROUP=apache
103 -- SADM_MAX_LOGLINE=5000
104 -- SADM_MAX_RCLINE=125
105 -- SADM_NMON_KEEPPAYS=60
106 -- SADM_SAR_KEEPPAYS=60
107 -- SADM_RCH_KEEPPAYS=60
108 -- SADM_LOG_KEEPPAYS=60
109 -- SADM_PGUSER=postgres
110 -- SADM_PGGROUP=postgres
111 -- SADM_PGDB=sadmin
112 -- SADM_PGSHEMA=sadm
113 -- SADM_PGHOST=sadmin.maison.ca
114 -- SADM_PGPORT=5432
115 -- SADM_RW_PGUSER=sadmin
116 -- SADM_RW_PGPWD=nimdas
117 -- SADM_RO_PGUSER=squery
118 -- SADM_RO_PGPWD=squery
119 =====
120 Press [ENTER] to Continue
121
122
123
124 Testing Epoch and Elapse time calculation functions
125 Start Date is 2016.11.28 17:45:36 -- Epoch is 1480373136
126 Please wait - Sleeping for 5 seconds
127 End Date is 2016.11.28 17:45:42 -- Epoch is 1480373142

```

```
128 Elapsed time is 00:00:06
129 Press [ENTER] to Continue
130
131
132 2016.11.28 17:46:00 - - -
133 2016.11.28 17:46:00 - - =====
134 2016.11.28 17:46:00 - Script return code is 0
135 2016.11.28 17:46:02 - Script execution time is 00:01:32
136 2016.11.28 17:46:02 - Trimming /sadmin/dat/rch/aixb50_sadm_lib_test.rch to max. 125 lines.
137 2016.11.28 17:46:02 - User requested mail only if script fail - will not send mail
138 2016.11.28 17:46:02 - Trimming /sadmin/log/aixb50_sadm_lib_test.log to max. 5000 lines.
139 2016.11.28 17:46:02 - Mon Nov 28 17:46:02 EST 2016 - End of adm_lib_test.sh
140 2016.11.28 17:46:02 - - =====
141 2016.11.28 17:46:02 - - -
142 root@aixb50(/sadmin/lib)#
```