Unit 2
System Management Interface Tool (SMIT)
Unit objectives

After completing this unit, you should be able to:

- Describe the benefits of the system management tools available with AIX version 6.1
- Discuss the functionality of SMIT
- Explain how SMIT activity is logged
Early system administration

**Commands**
- print
- mount
- errpt
- passwd
- backup
- trace
- kill
- restore
- update
- penable

**Flat files**
- /etc/profile
- /etc/qconfig
- /etc/filesystems
- /etc/rc
- /etc/passwd

**Front end menus**
- adduser
- devices
- minidisks

**System Management**
System management objectives

- Minimize time and resources spent managing systems
- Maximize reliability, performance, and productivity
- Provide remote system management solutions
AIX administration

- SMIT
- Web-based System Manager
- Systems Director

- High-level commands
- Low-level commands
- Intermediate-level commands

- System calls
- Kernel services
- System Resource Controller
- Object Data Manager
- ASCII files
System Management Interface Tool (SMIT)

ASCII or AIXwindows (Motif) user interface components

- menu
- help
- submenu
- help
- submenu
- name selector
  - help
  - list
- pop-ups
- dialog panel
  - help
  - list
- output panel
SMIT main menu (ASCII)

# smit

System Management

Move cursor to desired item and press Enter.

Software Installation and Maintenance
Software License Management
Devices
System Storage Management (Physical & Logical Storage)
Security & Users
Communications Applications and Services
Workload Partition Administration
Print Spooling
Advanced Accounting
Problem Determination
Performance & Resource Scheduling
System Environments
Processes & Subsystems
Applications
Installation Assistant
Cluster Systems Management
Using SMIT (information only)

F1=Help          F2=Refresh          F3=Cancel          F8=Image
F9=Shell         F10=Exit           Enter=Do
SMIT main menu (Motif)
Schedule a Job

Type or select values in entry fields.
Press Enter AFTER making all desired changes.

[Entry Fields]

YEAR               [07]   #
MONTH              [Jun]  +
DAY (1-31)         [22]   #
* HOUR (0-23)      []    #
* MINUTES (0-59)   []    #
SHELL to use for job execution Korn (ksh)  +
* COMMAND or SHELL SCRIPT (full pathname) []

F1=Help           F2=Refresh           F3=Cancel           F4=List
F5=Reset          F6=Command           F7=Edit             F8=Image
F9=Shell          F10=Exit             Enter=Do
Output screen

Command: OK          stdout: yes          stderr: no

Before command completion, additional instructions may appear below.

[TOP]

<table>
<thead>
<tr>
<th>UID</th>
<th>PID</th>
<th>PPID</th>
<th>C</th>
<th>STIME</th>
<th>TTY</th>
<th>TIME</th>
<th>CMD</th>
</tr>
</thead>
<tbody>
<tr>
<td>root</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>20:15:04</td>
<td>-</td>
<td>1:49</td>
<td>/etc/init</td>
</tr>
<tr>
<td>root</td>
<td>1719</td>
<td>1</td>
<td>0</td>
<td>20:16:14</td>
<td>-</td>
<td>0:10</td>
<td>/etc/syncd 60</td>
</tr>
<tr>
<td>root</td>
<td>2003</td>
<td>1</td>
<td>0</td>
<td>20:16:19</td>
<td>-</td>
<td>0:00</td>
<td>/etc/srcmstr</td>
</tr>
<tr>
<td>root</td>
<td>2233</td>
<td>1</td>
<td>0</td>
<td>17:16:14</td>
<td>-</td>
<td>0:00</td>
<td>/usr/lib/errdemon</td>
</tr>
<tr>
<td>ray</td>
<td>3525</td>
<td>1</td>
<td>0</td>
<td>20:01:28</td>
<td>0</td>
<td>0:00</td>
<td>-ksh</td>
</tr>
<tr>
<td>root</td>
<td>3806</td>
<td>2003</td>
<td>0</td>
<td>19:16:23</td>
<td>-</td>
<td>0:00</td>
<td>/etc/syslogd</td>
</tr>
<tr>
<td>ray</td>
<td>4162</td>
<td>3525</td>
<td>6</td>
<td>20:53:22</td>
<td>0</td>
<td>0:04</td>
<td>smit</td>
</tr>
<tr>
<td>root</td>
<td>5355</td>
<td>1</td>
<td>0</td>
<td>20:16:27</td>
<td>-</td>
<td>0:12</td>
<td>/etc/cron</td>
</tr>
<tr>
<td>root</td>
<td>6649</td>
<td>2003</td>
<td>0</td>
<td>20:16:32</td>
<td>-</td>
<td>0:00</td>
<td>qdaemon</td>
</tr>
<tr>
<td>ray</td>
<td>7303</td>
<td>4162</td>
<td>8</td>
<td>20:09:45</td>
<td>0</td>
<td>0:00</td>
<td>ps -ef</td>
</tr>
</tbody>
</table>

[MORE...6]

F1=Help          F2=Refresh          F3=Cancel          F6=Command
F8=Image          F9=Shell           F10=Exit           /=Find
n=Find Next
SMIT log and script files

- **$HOME/smit.log**
  Keeps a log of all menu and dialog screens visited, all commands executed and their output. Also records any errors during the SMIT session.

- **$HOME/smit.script**
  Shell script containing all AIX commands executed by SMIT.
smit command options

- General syntax:

```
  smit [-options] [ FastPath ]
```

- Invoke ASCII version:

```
  # smitty
  # smit -C
```

- Log (but do not actually run) commands:

```
  # smit -x
```

- Redirect the log file and script file:

```
  # smit -s /u/team1/smit.script -l /u/team1/smit.log
  # smit -s /dev/pts/1 -l /dev/pts/2
```
Welcome to IBM Systems Director Console for AIX

The IBM Systems Director Console for AIX provides an easy to use interface for administering the web-enabled AIX management tasks, including previous System Management Interface Tool (SMIT) and Web-based System Management tasks. Use the OS Management navigation tab to view your management task categories. Each category will display subcategories that will lead to all of the tasks you can perform using the console. You may also navigate directly to the tasks using the SMIT tool.

For more information about the console, AIX and System p, or hardware, refer to the following information centers:

IBM Systems Director Console for AIX Information Center.

AIX and System p Information Center.

System hardware Information Center.

Set Up IBM Systems Director Console for AIX
Checkpoint

1. Specify the SMIT function keys that can be used for the following:
   a) List the command that will be run: ____
   b) List the screen name which can be used for the fastpath: ____
   c) Take a screen image: ___
   d) Break out into a shell: ___
   e) Return to the previous menu: ___

2. Specify two ways you can request the ASCII character version of SMIT from an X-windows environment command prompt:
   - ______________
   - ______________
1. Specify the SMIT function keys that can be used for the following:
   - List the command that will be run: F6
   - List the screen name which can be used for the fastpath: F8
   - Take a screen image: F8
   - Break out into a shell: F9
   - Return to the previous menu: F3

2. Specify two ways you can request the ASCII character version of SMIT from an X-windows environment command prompt:
   - smitty
   - smit -C
Exercise 2: Using SMIT

- Using SMIT with the ASCII interface
- Using SMIT with the Motif interface (optional)
Unit summary

- Most system administration tasks can be completed using either the ASCII or graphical (Motif) version of SMIT
- SMIT provides logging of activities and generated commands
- SMIT has useful fastpaths for bypassing the menu structures