Navigator Startup

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Operations</td>
<td>Manage messages, printer output, printers, and jobs.</td>
</tr>
<tr>
<td>Work Management</td>
<td>Manage active jobs, server jobs, job queues, subsystems, and more</td>
</tr>
<tr>
<td>Configuration and Service</td>
<td>Display system inventory, work with fixes, and collect performance</td>
</tr>
<tr>
<td>Network</td>
<td>Manage TCP/IP and Internet support.</td>
</tr>
<tr>
<td>Integrated Server Admin...</td>
<td>Administer integrated Windows, Linux and AIX servers.</td>
</tr>
<tr>
<td>Security</td>
<td>Configure and manage security.</td>
</tr>
<tr>
<td>Users and Groups</td>
<td>Manage i5/OS users and user groups.</td>
</tr>
<tr>
<td>Databases</td>
<td>DB2 UDB for iSeries.</td>
</tr>
<tr>
<td>File Systems</td>
<td>Work with file systems.</td>
</tr>
<tr>
<td>Application Development</td>
<td>Work with application development tools.</td>
</tr>
<tr>
<td>APP Manager</td>
<td>Manage APP resources, PSF configurations, and font tables.</td>
</tr>
<tr>
<td>Backup, Recovery and Media...</td>
<td>Back up or restore iSeries data</td>
</tr>
</tbody>
</table>
## Management Central Menu

### iSeries Navigator

#### Environment: My Connections

- Basic Operations: Manage messages, printer output, printers, and jobs.
- Work Management: Manage active jobs, server jobs, job queues, subsystems, and more.
- Configuration and Service: Display system inventory, work with fixes, and collect performance data.
- Network: Manage TCP/IP and Internet support.
- Integrated Server Administration: Administer integrated Windows, Linux, and AIX servers.
- Security: Configure and manage security.
- Users and Groups: Manage iSeries users and user groups.
- Databases: DB2 UDB for iSeries.
- File Systems: Work with file systems.
- Application Development: Work with application development tools.
- APP Manager: Manage APP resources, PSF configurations, and font tables.
- Backup, Recovery and Media: Back up or restore iSeries data.
Monitor Menu

iSeries Navigator

Environment: My Connections

- Management Central
  - Task Activity
  - Scheduled Tasks
  - Definitions
  - Monitors
    - System
    - File
    - Job
    - Message
  - B2B Activity
- Endpoint Systems
- System Groups
- Extreme Support
- Advanced Job Scheduler
- Systems with Partitions
- Clusters
- My Connections
  - Dev
  - S102542
  - S10144
  - Test
  - Wmbbackup

Test:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Operations</td>
<td>Manage messages, printer output, printers, and jobs.</td>
</tr>
<tr>
<td>Work Management</td>
<td>Manage active jobs, server jobs, job queues, subsystems, and more.</td>
</tr>
<tr>
<td>Configuration and Service</td>
<td>Display system inventory, work with fixes, and collect performance data.</td>
</tr>
<tr>
<td>Network</td>
<td>Manage TCP/IP and Internet support.</td>
</tr>
<tr>
<td>Integrated Server Administration</td>
<td>Administer integrated Windows, Linux and AIX servers</td>
</tr>
<tr>
<td>Security</td>
<td>Configure and manage security.</td>
</tr>
<tr>
<td>Users and Groups</td>
<td>Manage IS/OS users and user groups.</td>
</tr>
<tr>
<td>Databases</td>
<td>DB2 UDB for iSeries.</td>
</tr>
<tr>
<td>File Systems</td>
<td>Work with file systems.</td>
</tr>
<tr>
<td>Application Development</td>
<td>Work with application development tools.</td>
</tr>
<tr>
<td>AFP Manager</td>
<td>Manage AFP resources, PSF configurations, and font tables.</td>
</tr>
<tr>
<td>Backup, Recovery and Media...</td>
<td>Back up or restore iSeries data.</td>
</tr>
</tbody>
</table>
System Monitor Property Screens
System Monitor Metric Screens

Available metrics:
- CPU Utilization (Average)
- CPU Utilization (Interactive Jobs)
- CPU Utilization (Interactive Feature)
- CPU Utilization (Database Capability)
- CPU Utilization (Secondary Workloads)
- CPU Utilization Basic (Average)
- Interactive Response Time (Average)
- Interactive Response Time (Maximum)
- Transaction Rate (Average)
- Transaction Rate (Interactive)

Metrics to monitor:

General | Threshold 1 | Threshold 2 |
---------|-------------|-------------|

Collection interval:

Maximum graphing value: 0 percent

Display time: 0 minutes
# System Monitor Threshold

## New Monitor

### General Tab

#### Available Metrics:
- Disk Storage (Average)
- Disk Storage (Maximum)
- Disk IOP Utilization (Average)
- Disk IOP Utilization (Maximum)
- Communications IOP Utilization (Maximum)
- Communications IOP Utilization (Average)
- Machine Pool Faults
- User Pool Faults (Maximum)
- User Pool Faults (Average)
- Communications Line Utilization (Average)

#### Metrics to Monitor:
- CPU Utilization (Average)

### Metrics Tab

#### General Tab:
- Enable threshold
- Trigger:
  - Duration:
  - Operating system command:

#### Threshold 1 Tab:
- >=
- 0
- 1
- percent
- intervals
- Prompt...

#### Threshold 2 Tab:
- <
- 0
- 1
- percent
- intervals
- Prompt...

### Actions Tab

### Systems and Groups Tab

### Sharing Tab
System Monitor Threshold

Available metrics:
- Disk Storage (Average)
- Disk Storage (Maximum)
- Disk IOP Utilization (Average)
- Disk IOP Utilization (Maximum)
- Communications IOP Utilization (Average)
- Communications IOP Utilization (Maximum)
- Machine Pool Faults
- User Pool Faults (Maximum)
- User Pool Faults (Average)
- Communications Line Utilization (Average)

Metrics to monitor:
- CPU Utilization (Average)

Enable threshold

Trigger:
- Duration: 2 intervals
- Operating system command: Enter your message program or command here

Reset:
- Duration: 3 intervals
- Operating system command: Enter your message program or command here
New System Monitor Selection

Available metrics:
- Disk Storage (Average)
- Disk Storage (Maximum)
- Disk IOP Utilization (Average)
- Disk IOP Utilization (Maximum)
- Communications IOP Utilization (Maximum)
- Communications IOP Utilization (Average)
- Machine Pool Faults
- User Pool Faults (Maximum)
- User Pool Faults (Average)
- Communications Line Utilization (Average)

Metrics to monitor:
- CPU Utilization (Average)

CPU Utilization (Average)

Enable threshold
- Trigger:
  - Duration:
  - Operating system command:
- Reset:
  - Duration:
  - Operating system command:
System Monitor Selection

New Monitor

Available metrics:
- Disk Arm Utilization (Average)
- Disk Arm Utilization (Maximum)
- Disk Storage (Maximum)
- Disk ICP Utilization (Average)
- Disk ICP Utilization (Maximum)
- Communications ICP Utilization (Average)
- Communications ICP Utilization (Maximum)
- Machine Pool Faults
- User Pool Faults (Maximum)
- User Pool Faults (Average)

Metrics to monitor:
- CPU Utilization (Average)
- Disk Storage (Average)

Collection interval: 1 minute
Maximum graphing value: 100 percent
Display time: 60 minutes
System Monitor Systems and Group Selection
System Monitor Systems Selection
System Selected
System Monitor Sharing Selection

Owner: Tduncan

Sharing:
- None
- Read-Only
- Controlled
System Monitor Screen
System Monitor Menu (start option)
System Monitor Started
System Monitor jobs on System i
System Monitor jobs on System i
System Monitor Menu (open option)
Open System Monitor (light blue)
System Monitor Menu (User Preferences)
System Monitor User Preferences

User Preferences

- Automatically open a Task Status window
- Upon when one of my tasks stops
- Upon when one of my tasks ends
- With a final status of [Completed or Failed]

- Enable all informational messages
  Some informational messages may not be shown because they are disabled. Click Enable Messages to allow all informational messages to be shown.

Enable Messages
Monitor Color Selection
Open System Monitor (dark blue)
User Pool Monitor Detail
View Menu (change layout)
System Monitor Two Columns
Job menu
Job Properties
## Job Properties

<table>
<thead>
<tr>
<th>Date started:</th>
<th>03/06/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time started:</td>
<td>13:05:03</td>
</tr>
<tr>
<td>Job description:</td>
<td>QYPSJOB0D</td>
</tr>
<tr>
<td>Library:</td>
<td>QSYS</td>
</tr>
<tr>
<td>Submitted by:</td>
<td>DSP01</td>
</tr>
<tr>
<td>User:</td>
<td>TDUNCAN</td>
</tr>
<tr>
<td>Number:</td>
<td>094633</td>
</tr>
</tbody>
</table>

**Job Properties - TEST**

- **Active 3**
- **Message 1**
- **Message 2**
- **International 1**
- **International 2**
- **Other**
- **General 1**
- **General 2**
- **Job queue**
- **Printer Output**
- **Active 1**
- **Active 2**

**Buttons:**
- **OK**
- **Cancel**
- **Help**
### Job Properties

<table>
<thead>
<tr>
<th>Job queue</th>
<th>QSYSNOMAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job queue library</td>
<td>QSYS</td>
</tr>
<tr>
<td>Priority on job queue</td>
<td>5</td>
</tr>
<tr>
<td>Date entered queue</td>
<td>03/06/09</td>
</tr>
<tr>
<td>Time entered queue</td>
<td>13:05:03</td>
</tr>
</tbody>
</table>
Job Properties

Priority on output queue (1 - 9): 5
Printer: PRT01
Output queue: Use printer value
Library:
Print text:
Print key format: Print header
Job Properties

Run priority (1 - 99): 10
Subsystem: QSYSWRK
Subsystem library: QSYS
Routing data: RUNPTY10
System pool identifier: 2
Current system pool identifier: 2
Current user: QYPSJSVR
Special environment: None
CPU Time
CPU maximum: No maximum
## Job Properties

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU used</td>
<td>14494</td>
</tr>
<tr>
<td>Temporary storage</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>No maximum</td>
</tr>
<tr>
<td>Used</td>
<td>92160</td>
</tr>
<tr>
<td>Auxiliary I/O requests</td>
<td>14174</td>
</tr>
<tr>
<td>Interactive transactions</td>
<td>0</td>
</tr>
<tr>
<td>Thread count</td>
<td>55</td>
</tr>
<tr>
<td>Total response time</td>
<td>0</td>
</tr>
<tr>
<td>Time slice (1 - 9999999)</td>
<td>2000</td>
</tr>
<tr>
<td>Time-slice end pool</td>
<td>None</td>
</tr>
</tbody>
</table>
### Job Properties

<table>
<thead>
<tr>
<th>General 1</th>
<th>General 2</th>
<th>Job queue</th>
<th>Printer Output</th>
<th>Active 1</th>
<th>Active 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active 3</strong></td>
<td>Message 1</td>
<td>Message 2</td>
<td>International 1</td>
<td>International 2</td>
<td>Other</td>
</tr>
</tbody>
</table>

- **Eligible for purge:** Yes
- **Default wait time (1 - 9999999):** 30
- **Return codes**
  - Product return code: 0
  - User return code: 0
  - Program return code: 0
- **Controlled end requested:** No
- **Switch settings:** 00000000

[Image of the Job Properties dialog box]
### Job Properties

**Break message handling:** Normal

**Status message handling:** Normal

**Inquiry message reply:** Required

**End severity:** 30

**Log commands in CL programs:** No

**Message logging**

- **Level (0 - 4):** 4
- **Severity (0 - 99):** 0
- **Information logged:** Message text and help

**Message queue maximum size:** 16
Job Properties

```
<table>
<thead>
<tr>
<th>General 1</th>
<th>General 2</th>
<th>Job queue</th>
<th>Printer Output</th>
<th>Active 1</th>
<th>Active 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active 3</td>
<td>Message 1</td>
<td>Message 2</td>
<td>International 1</td>
<td>International 2</td>
<td>Other</td>
</tr>
</tbody>
</table>

Message queue action: Wrap
```
Job Properties

Date format: Month Day Year
Date separator: /
Time separator: :
Decimal format: 1,000.00 or .01 (blank)
Language identifier: 
Country or region ID: 
Sort sequence table: None
Library: 
CCSID: 
Default CCSID: 37
Job Properties

Device recovery action: Send error message

Keep DDM connections active: Yes

Accounting code: *SYS
Green Screen Equivalence

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job name</td>
<td>QYPSJSVR</td>
</tr>
<tr>
<td>User</td>
<td>QYPSJSVR</td>
</tr>
<tr>
<td>Number</td>
<td>094745</td>
</tr>
<tr>
<td>Job priority (on JOBQ)</td>
<td>*SAME</td>
</tr>
<tr>
<td>Output priority (on OUTQ)</td>
<td>5</td>
</tr>
<tr>
<td>Print device</td>
<td>*SAME, *USRPRF...</td>
</tr>
<tr>
<td>Output queue</td>
<td>*DEV, *SAME, *USRPRF, *DEV...</td>
</tr>
<tr>
<td>Library</td>
<td>Name, *LIBL, *CURLIB</td>
</tr>
<tr>
<td>Run priority</td>
<td>10, *SAME</td>
</tr>
<tr>
<td>Job queue</td>
<td>*SAME</td>
</tr>
<tr>
<td>Library</td>
<td>Name, *LIBL, *CURLIB</td>
</tr>
<tr>
<td>Print text</td>
<td>*BLANK</td>
</tr>
</tbody>
</table>
Green Screen Equivalence
Green Screen Equivalence
Threshold Triggered
File Monitor Menu
File Monitor Definition

'Sample File Monitor' Properties

Name: Sample File Monitor
Description: IBM-supplied sample file monitor

Files to monitor:
- History log (QHST)
- Selected files:

[Buttons: Browse, Add, Remove, OK, Cancel, Help]
File Monitor File Selection
File Monitor Metrics

QAS Database Expiration Monitor Properties

Available metrics:
- File Status
- Size

Metrics to monitor:
- Text

Thresholds for 'Text'

Threshold 1  Threshold 2

Trigger when the following text appears:

Text: QWP4033I

Count: 1 occurrences

Text to log:
- Log only line with matching text
- Log 1 lines of text before and after matching line

Trigger command: 'QAS Database is close to expiring'

Automatically reset after trigger command has run

Reset command:
Message Monitor Screen
Message Monitor Menu
Message Monitor Properties
Message Monitor Set 1 Metrics
Message Monitor Set 2 Metrics
Message Monitor Collection Interval
Message Monitor System and Group Selection
Message Monitor Sharing Selection
Recommended Message 1 Set

'DASD Message Monitor' Properties

Message queue to monitor: Qsysop
Library: Qsys

Message Set 1

Message ID:
All

Type:
All
Add -->

Severity:
>= 0
Remove

Reply with:

Selected messages:

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Type</th>
<th>Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cpi1604</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi0945</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi161</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi0953</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpea05</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi0954</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi0934</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi0907</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi9999</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi999c</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi091f</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi948</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
<tr>
<td>Cpi941a</td>
<td>All</td>
<td>&gt;= 0</td>
</tr>
</tbody>
</table>

Permanently remove monitored messages from message queue

Trigger at the following message count:
1 messages

i5/OS trigger command:
Your notification program or command goes here
Prompt...

Automatically reset after trigger command has run

i5/OS reset command:
Your notification program or command goes here
Prompt...

OK Cancel Help
Recommended Message 2 Set

'DASD Message Monitor' Properties

Message queue to monitor: Qsysopr
Library: Qsys

Message Set 1

Message ID:
All
Type:
All
Severity:
>= 0
Reply with:

Selected messages:
- Cpf1036
- Cpf1037
- Cppe13
- Cpi836c
- Cppea03
- Cppea02
- Cppea01
- Cppea04
- Cppea06
- Cppea12
- Cppea26
- Cppea30

Add a predefined set of messages
Add

Permanently remove monitored messages from message queue

Trigger at the following message count: 1 messages

If/OS trigger command:
Your notification program or command goes here

Automatically reset after trigger command has run

If/OS reset command:
Your notification program or command goes here

OK  Cancel  Help
Create New Job Monitor
General Tab/Jobs to Monitor Tab for Job Monitor
General Tab/Servers to Monitor Tab for Job Monitor
Add jobs to Job Monitor

![System BATCH monitor Properties dialog box](image)

<table>
<thead>
<tr>
<th>Job name</th>
<th>User</th>
<th>Subsystem</th>
<th>Job Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>All</td>
<td>Qbatch</td>
<td>All</td>
</tr>
<tr>
<td>Qzdassinit</td>
<td>All</td>
<td>Qusrwrk</td>
<td>All</td>
</tr>
</tbody>
</table>

Jobs will be monitored.
Metrics Screen for Job Monitor

Available metrics:
- Job Count
- Job Log Message
- Job Status
- Job Numeric Values
- Summary Numeric Values

Metrics to monitor:
- Job Count
- Job Log Message
- Job Status
- Job Numeric Values
- Summary Numeric Values
- CPU Percent Utilization

CPU Percent Utilization

Threshold 1
- Enable trigger: checked
- Duration: 6 intervals
- i5/OS trigger command: Your notification command goes here
- Enable reset: checked
- Duration: 2 intervals
- i5/OS reset command: Your notification command goes here

Threshold 2
- percent busy

Add -->
Remove <--

OK  Cancel  Help  ?
Collection Interval for Job Monitor

- Use the same collection interval for all metrics:
  - 15 minutes

- Use different collection intervals for each metric type:
  - Job count, job numeric values, summary numeric values:
    - 15 minutes
  - Job log messages:
    - 30 minutes
  - Job status:
    - 15 minutes
Actions Screen for Job Monitor

- **Trigger:**
  - Log event: [ ]
  - Open event log: [ ]
  - Open monitor: [ ]
  - Sound alarm: [ ]
  - Run i5/OS command: [ ]

- **Reset:**
  - Log event: [ ]
  - Open event log: [ ]
  - Open monitor: [ ]
  - Sound alarm: [ ]
  - Run i5/OS command: [ ]

- **Apply thresholds and actions**
  - **Always apply**
  - **Apply:**
    - From: 8:00 AM
    - To: 5:00 PM
    - Monday
    - Tuesday
    - Wednesday
    - Thursday
    - Friday
    - Saturday
    - Sunday
System Selection Screen for Job Monitor