



# Server Administration

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# Server Administration Overview

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- Product Support
  - SUNFM
  - PLBSERVE



# Server Administration Overview

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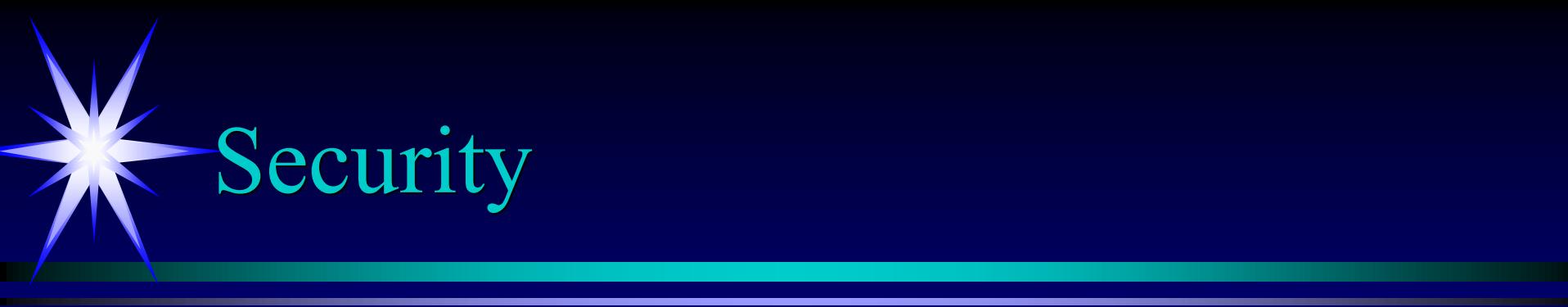
- Implementation Goals
  - Low child task overhead
- All logging through central task
- Data Collection
  - 'Push' Style
  - Message Queue
  - Globally Filtered



# Server Administration Overview

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- Implementation Goals
- Program Data Input
- Child Task Command Control
  - Shared Memory
- PL/B Statements
  - Access Server Admin Functions



# Security

- Optional
- All Messages Encrypted
- Privileges/Ability File
  - New Name
  - Password
  - User Accessibility



# Security

- Logon Message
- Contains Name/Password
- Name Linked to User Encryption Key



# PL/B Statements

- Administrator Functions
- User Program Accessible
  
- New Language Data Variable
- ADMIN



# PL/B Statements

- New Language Instructions
- ADMLOGON
  - Connect To Server
- ADMLOGOFF
  - Disconnect From Server



# PL/B Statements

- ADMGETINFO
  - Retrieve Child Task Information
- ADMCOMMAND
  - Send Commands To Child Tasks
- ADMSETINFO
  - Set Program Specific Information



# PL/B Statements

ADMLOGON

<adm>,<ipadr>,<port>[,<name>][,<pass>]

- <adm>
  - ADMIN data variable
- <ipadr>
  - I/P Address of server
  - Can be set to "local" for local server



# PL/B Statements

- <port>
  - Port number of server
- <name>
  - Optional logon name
- <pass>
  - Optional logon password



# PL/B Statements

ADMLOGOFF <adm>

- <adm>
- ADMIN data variable



# PL/B Statement

## □ Get Information

ADMGETINFO

<adm>,<id>,<type>,<mask>,<result>



# PL/B Statement

- <adm>
  - ADMIN data variable
- <id>
  - Admin ID of object
  - Zero For All IDs
  - Specific Admin ID



# PL/B Statement

- <type>
- Type of info
- Number indicating the type data to return.
- \$AdmItemAdmId                            EQU            0
- \$AdmItemUserIp                            EQU            1
- \$AdmItemProgName                        EQU            2
- \$AdmItemFileName                        EQU            3
- \$AdmItemBasicData1                    EQU            8



# PL/B Statement

- <mask>
  - Mask to filter the request
  - Specific to <type> Parameter
  - Can be Null to match all
  - Can be string of characters
  - Can contain >, <, =, >=, <=, or <> for numeric
  - Can contain an '\*' for group of characters
  - Can contain a '?' to match a single character



# PL/B Statement

- <result>
  - Data variable for result
  - Data items separated by ',' character
  - Data groups separated by ';' character
  - <id> set to 0, data group starts with Admin ID
  - File names stored as
    - <index name>%<data name>



# PL/B Statement

- Command to Child Task
- ADMCOMMAND  
`<adm>,<cmd>,<type>,<match>[,<value>]`
- <adm>
  - ADMIN data variable



# PL/B Statement

- <cmd>
- Command to execute
- Number indicating action to take
  - \$AdmCmdSoftTerm EQU 1
  - \$AdmCmdHardTerm EQU 2
  - \$AdmCmdLoggingOn EQU 3
  - \$AdmCmdLoggingOff EQU 4
  - \$AdmCmdLogLevel EQU 5



# PL/B Statement

- <type>
- Type of info
- <type> & <match> used together to select tasks
- Number indicating type of data for <match>
- \$AdmItemAdmId                            EQU            0
- \$AdmItemUserIp                            EQU            1
- \$AdmItemProgName                        EQU            2
- \$AdmItemFileName                        EQU            3



# PL/B Statement

- <mask>
  - Mask to filter the request
  - Specific to <type> parameter
  - Can be null to match all
  - Can be string of characters
  - Can contain '\*' to match group of characters
  - Can contain '?' to match single character



# PL/B Statement

- <value>
- Optional new value
- \$AdmCmdLogLevel Command
  - New Log Level



# PL/B Statement

## □ Set Information

ADMSETINFO <action> ,<type> ,<value>

## □ <action>

- Action of add, delete, or replace



# PL/B Statement

- Add
  - Add one entry
  - Matching <type>
- Delete
  - Remove one entry
  - Matching <type> and <value>
- Replace
  - Replace one entry
  - Matching <type> with <value>



# PL/B Statement

- <type>
  - Type of info
  - User defined number (1000 to 2000)
  
- <value>
  - Value to set
  - Can be any text





# That's All!!

