# DataHub for UNIX OS
# Functions

Helga Spickhoff
Carol Greenstreet

SWS
STL

June 18th, 1996

# DataHub for UNIX OS Functions

Helga Spickhoff
Carol Greenstreet

SWS
STL

June 18th, 1996

# Contents

# Contents

# DataHub for UNIX OS Functional Matrix

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |

[illegible]

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |

[illegible]

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | [illegible] |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | | [illegible] | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | [illegible] |
|---|---|---|---|---|---|---|
| [illegible] | | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | | [illegible] |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | | |
| [illegible] | | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | | |
| [illegible] | | [illegible] | | | | |

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |

| •••••••• | ••• •• | ••• •••• | •••••••••• | •••• | •••••• |
|---|---|---|---|---|---|
| •••••••• | | | | | |
| •••••• | •• | • | | | |
| •••• | •• | • | | | |
| •••••• | •• | • | | | |
| •••••••• | | | | | |
| ••• | ••• | • | | | |
| ••• •••• | | | | | |
| •••••• | • | • | | | |
| •••• | • | • | | | |
| •••••• | • | • | | | |
| ••••••• ••••• | | | | | |
| • ••••••••••••••••••••••••• | | | • | | |
| • •••••• | | | • | | |
| • •••• | | | • | | |
| •••••• | | | | | |
| • •••••••••••••••••••••• | | | | • | |
| ••••• | •• | • | | | |
| •••••• •••••••• | •• | • | | | |
| •••••• | •• | • | | | |
| •••• | •• | • | | | |
| •••••• | •• | • | | | |
| •••• | •• | • | | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | [illegible] | [illegible] |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | | [illegible] | |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | | | | [illegible] | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |
| [illegible] | [illegible] | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | [illegible] | | | |

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | [illegible] | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | | [illegible] | | [illegible] | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | | |

# DataHub for UNIX OS Database Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | | [illegible] | | |
| [illegible] | | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | [illegible] | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | | | | |

# DataHub for UNIX OS Offline Monitoring Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |

[illegible]

[illegible]

[illegible]

[illegible]

# DataHub for UNIX OS Operating System functions

| ••••••••• | ••• | ••••• | ••••••• |
|---|---|---|---|
| •••• | | | |
| • •••••••••••••••••••••• | • | • | • |
| • •••••••••••••••••••••••••••••• | • | • | • |
| • •••••••••••••• | • | | • |
| • ••••••••••••••••••••••••••••••••• | • | • | • |
| • •••••••••••••••••••••••••••• | • | • | • |
| ••••••••••• | ••••• | | |
| ••••••• | ••••• | | |
| ••••••••• | ••••• | | |
| •••• •••••••• | ••••• | | |
| •• ••••• | | | |
| • •••••••••••••••••••• | • | • | • |
| ••••••• | | | |
| • ••••••••••••••••• | • | • | • |
| •••• ••••••••• | ••••• | | |
| •••• | | | |
| •••• •••••• | • | | |
| •••••••• ••••• | | | |
| • ••••••••••••••••••••••••••••• | • | • | • |
| ••••• | ••••• | | |
| •••••• | ••••• | | |
| •••••• •••• | ••••• | | |
| •••••• •••••• | ••••• | | |
| •••• | ••••• | | |
| ••••••• | ••••• | | |
| •••• •••••• | ••••• | | |
| •••••••• •••• | | | |
| • ••••••••••••••••••••••••••••••• | • | • | • |
| •••• | ••••• | | |
| ••••••• | ••••• | | |
| •••••• | ••••• | | |

# DataHub for UNIX OS Grouping Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | [illegible] | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | [illegible] | [illegible] | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |

[illegible]

# DataHub for UNIX OS Grouping Functions

| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |
| [illegible] | | | | | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | |
| [illegible] | [illegible] | | | | |

# DataHub for UNIX OS Grouping Functions

| [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|
| [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | | | |
| [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |
| [illegible] | [illegible] | | |

# DataHub for UNIX OS Pull-down menu functions