



TaskManager

Introduction and Overview

The Task Manager module provides various facilities to ease the management of tasks. These are:

- a SWI to find the name of a task, given its handle
- a SWI to enumerate all the currently active tasks
- a SWI to initiate a desktop shutdown
- a * Command to change the size of various system areas.

The Task Manager module is not available in RISC OS 2.

SWI calls

TaskManager_TaskNameFromHandle (SWI &42680)

Finds the name of a task

On entry

R0 = task handle

On exit

R0 = pointer to task name

Interrupts

Interrupts are undefined
Fast interrupts are enabled

Processor mode

Processor is in SVC mode

Re-entrancy

SWI is re-entrant

Use

This call returns the name of a task, given its task handle. If you wish to keep the name, you must copy it into your own workspace.

Related SWIs

SWI TaskManager_EnumerateTasks (on page 3)

TaskManager_EnumerateTasks (SWI &42681)

Enumerates all the currently active tasks

On entry

R0 = 0 for first call, or value from previous call

R1 = pointer to word aligned buffer

R2 = buffer length (in bytes)

On exit

R0 = value to pass to next call, or < 0 if no more entries

R1 = pointer to first unused word in buffer

R2 = number of unused bytes in buffer

Interrupts

Interrupts are undefined

Fast interrupts are enabled

Processor mode

Processor is in SVC mode

Re-entrancy

SWI is not re-entrant

Use

This call enumerates all the currently active tasks. On exit the buffer is filled with entries of the form:

Offset Contents

- +0 task handle
- +4 pointer to task name (should be copied away and not used in place)
- +8 amount of memory (in K) used by the task
- +12 flags:
 - Bit(s) Meaning**
 - 0 module task, otherwise application task
 - 1 slot bar is draggable, otherwise slot bar cannot be dragged
 - 2-3 Reserved, must be zero

Related SWIs

SWI TaskManager_TaskNameFromHandle (on page 2)

TaskManager_Shutdown (SWI &42682)

Initiates a desktop shutdown

On entry

R0 = shutdown flags :

Bit(s)	Meaning
--------	---------

- | | |
|------|--|
| 0 | don't display restart dialogue (equivalent to Exit menu option) |
| 1 | don't broadcast <i>Message_PreQuit</i> (on page 0) |
| 2 | flag in CMOS as portable power-down |
| 3 | send <i>Message_Shutdown</i> (on page 0) |
| 4 | reject OS_UpCall 1 and 2 (see <i>COMMS.HTML#25162</i>) |
| 5-31 | Reserved, must be zero |

On exit

None

Interrupts

Interrupts are undefined
Fast interrupts are enabled

Processor mode

Processor is in SVC mode

Re-entrancy

SWI is not re-entrant

Use

This call initiates a desktop shutdown. The actions performed are controlled by the shutdown flags held in R0.

Related APIs

None

* Commands

*ChangeDynamicArea

Changes the size of the font cache, system sprite area and/or RAM disc

Syntax

```
*ChangeDynamicArea [-FontSize <n>[K]] [-SpriteSize <n>[K]]  
[-RamFsSize <n>[K]]
```

Parameters

<n> - Size of the area to be set, in kilobytes

Use

*ChangeDynamicArea changes the size of the font cache, system sprite area and/or RAM disc. It generates an error if it is unable to do so. Its main use is in desktop boot files.

Examples

```
*ChangeDynamicArea -SpriteSize 32K -RamFsSize 100K
```

Related SWIs

SWI OS_ChangeDynamicArea (on page 0)
SWI OS_UpCall 257 (on page 0)

Document information

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1 ROL Initial version

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