

battmem

COLLABORATORS

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|------------|--------------------|----------------|-----------|
| | TITLE : battmem | | |
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REVISION HISTORY

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Chapter 1

battmem

1.1 battmem.doc

| | |
|-----------------------|------------------------|
| ObtainBattSemaphore() | ReleaseBattSemaphore() |
| ReadBattMem() | WriteBattMem() |

1.2 battmem.resource/ObtainBattSemaphore

NAME

ObtainBattSemaphore -- Obtain access to nonvolatile ram. (V36)

SYNOPSIS

ObtainBattSemaphore()

void ObtainBattSemaphore(void);

FUNCTION

Aquires exclusive access to the system nonvolatile ram.

INPUTS

RESULTS

NOTES

SEE ALSO

BUGS

1.3 battmem.resource/ReadBattMem

NAME

ReadBattMem -- Read a bitstring from nonvolatile ram. (V36)

SYNOPSIS

Error = ReadBattMem(Buffer, Offset, Len)

D0 A0 D0 D1

```
ULONG ReadBattMem( APTR, ULONG, ULONG );
```

FUNCTION

Read a bitstring from nonvolatile ram.

INPUTS

| | |
|--------|----------------------------------|
| Buffer | Where to put the bitstring. |
| Offset | Bit offset of first bit to read. |
| Len | Length of bitstring to read. |

RESULTS

| | |
|-------|-------------------|
| Error | Zero if no error. |
|-------|-------------------|

NOTES

The battery-backed memory is checksummed. If a checksum error is detected, all bits in the battery-backed memory are silently set to zero.

Bits in the battery-backed memory that do not exist are read as zero.

Partial byte reads (less than 8 bits) result in the bits read being put in the low-order bits of the destination byte.

SEE ALSO

BUGS

1.4 battmem.resource/ReleaseBattSemaphore

NAME

```
ReleaseBattSemaphore -- Allow nonvolatile ram to others. (V36)
```

SYNOPSIS

ReleaseBattSemaphore ()

```
void ReleaseBattSemaphore( void );
```

FUNCTION

Relinquish exclusive access to the system nonvolatile ram.

INPUTS

RESULTS

NOTES

SEE ALSO

BUGS

1.5 battmem.resource/WriteBattMem

NAME

WriteBattMem -- Write a bitstring to nonvolatile ram. (V36)

SYNOPSIS

```
Error = WriteBattMem( Buffer, Offset, Len )
D0                      A0          D0      D1
```

```
ULONG WriteBattMem( APTR, ULONG, ULONG );
```

FUNCTION

Write a bitstring to the nonvolatile ram.

INPUTS

| | |
|--------|-----------------------------------|
| Buffer | Where to get the bitstring. |
| Offset | Bit offset of first bit to write. |
| Len | Length of bitstring to write. |

RESULTS

| | |
|-------|-------------------|
| Error | Zero if no error. |
|-------|-------------------|

NOTES

The battery-backed memory is checksummed. If a checksum error is detected, all bits in the battery-backed memory are silently set to zero.

Partial byte writes (less than 8 bits) result in the bits written being read from the low-order bits of the source byte.

SEE ALSO

BUGS