

battmem

COLLABORATORS

	TITLE : battmem		
ACTION	NAME	DATE	SIGNATURE
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

battmem

1.1 battmem.doc

```
ObtainBattSemaphore()  
ReadBattMem()  
ReleaseBattSemaphore()  
WriteBattMem()
```

1.2 battmem.resource/ObtainBattSemaphore

NAME

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

SYNOPSIS

```
ObtainBattSemaphore( )
```

```
void ObtainBattSemaphore( void );
```

FUNCTION

Acquires 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.
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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.
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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