

**battmem**

COLLABORATORS

	TITLE : battmem		
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REVISION HISTORY

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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.

### 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