

# Lock Routine

## Description

Provides a method for coordinating access to tables, rows, or columns by setting locks

## Syntax

**Lock**(*tablename*, *key*, *columnlist*, *locktype*)

## Parameters

The Lock routine has the following parameters.

Parameter	Description										
<i>Tablename</i>	Specifies the name of the table to lock.										
<i>Key</i>	Key of the row to lock. If null, the entire table is locked.										
<i>columnList</i>	An @fm delimited list of columns to lock. If the columnList is null the entire record is locked.										
<i>Locktype</i>	Set one of four lock types: <table><tr><th>locktype</th><th>Description</th></tr><tr><td>0</td><td>Exclusive lock.</td></tr><tr><td>1</td><td>Shared lock.</td></tr><tr><td>2</td><td>Exclusive coordinated lock (row and column locks only).</td></tr><tr><td>3</td><td>Shared coordinated lock (row and column locks only).</td></tr></table>	locktype	Description	0	Exclusive lock.	1	Shared lock.	2	Exclusive coordinated lock (row and column locks only).	3	Shared coordinated lock (row and column locks only).
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## Remarks

Since the Lock routine uses the Lock statement, it is more efficient to use the Lock statement in a BASIC+ script.

## Examples

```

/* Lock and unlock specific columns within a row */
declare subroutine lock, unlock
table = 'PRODUCTS'
row = '3542-5-310-1'
cols = 'DESCRIPTION':@fm:'PRICE'
locktype = ""
Lock(table,row,cols,locktype)
status = Get_Status(errCodes)
If status Then
    FSMsg(errCodes)
End
* Do Some Processing
call Unlock(table,row,cols,locktype)
status = Get_Status(errCodes)
If status Then
    FSMsg(errCodes)
End
/* Lock and unlock a row */
declare subroutine lock, unlock
table = 'PRODUCTS'
row = '3542-5-310-1'
cols = ''
locktype = ""
Lock(table,row,cols,locktype)
status = Get_Status(errCodes)
If status Then
    FSMsg(errCodes)
End
* Do Some Processing
Unlock(table,row,cols,locktype)
status = Get_Status(errCodes)
If status Then
    FSMsg(errCodes)
End

```