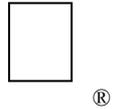


New Technical Notes

Macintosh



Developer Support

AddDrive, DrvrInstall, and DrvrRemove Devices

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AddDrive, DrvrInstall, and DrvrRemove are used in the sample SCSI driver in the SCSI Development Package, which is available from APDA. This Technical Note documents the parameters for these calls.

Changes since March 1, 1988: Updated the DrvrInstall text to reflect the use of register A0, which should contain a pointer to the driver when called. Also added simple glue code for DrvrInstall and DrvrRemove since none is available in the MPW interfaces.

AddDrive

AddDrive adds a drive to the drive queue, and is discussed in more detail in Technical Note #36, Drive Queue Elements:

```
FUNCTION AddDrive(DQE:DrvQE1;driveNum,refNum:INTEGER):OSError;
```

A0 (input)	→	pointer to DQE
D0 high word(input)	→	drive number
D0 low word(input)	→	driver RefNum
D0 (output)	←	error code
		noErr (always returned)

DrvrInstall

DrvrInstall is used to install a driver. A DCE for the driver is created and its handle entered into the specified Unit Table position (-1 through -64). If the unit number is -4 through -9, the corresponding ROM-based driver will be replaced:

```
FUNCTION DrvrInstall(drvrHandle:Handle; refNum: INTEGER): OSError;
```

A0 (input)	→	pointer to driver
D0 (input)	→	driver RefNum (-1 through -64)
D0 (output)	←	error code
		noErr
		badUnitErr

DrvRemove

DrvRemove is used to remove a driver. A RAM-based driver is purged from the system heap (using ReleaseResource). Memory for the DCE is disposed:

```
FUNCTION DrvrRemove (refNum: INTEGER):OSErr;
```

D0 (input)	→	Driver RefNum
D0 (output)	←	error code
		noErr
		qErr

Interfaces

Through a sequence of cataclysmic events, the glue code for DrvInstall and DrvRemove was never actually added to the MPW interfaces (i.e., “We forgot.”), so we will include simple glue here at no extra expense to you.

It would be advisable to first lock the handle to your driver with HLock before making either of these calls since memory may be moved.

```

;-----
; FUNCTION DRVRInstall (drvHandle:Handle; refNum:INTEGER):OSErr;
;-----

DRVRInstall      PROC      EXPORT
  MOVEA.L        (SP)+, A1      ; pop return address
  MOVE.W         (SP)+, D0      ; driver reference number
  MOVEA.L        (SP)+, A0      ; handle to driver
  MOVEA.L        (A0), A0       ; pointer to driver
  _DrvInstall    ; $A03D
  MOVE.W         D0, (SP)      ; get error
  JMP            (A1)          ; & split
ENDPPROC

;-----
; FUNCTION DRVRRemove (refNum:INTEGER):OSErr;
;-----

DRVRRemove      PROC      EXPORT
  MOVEA.L        (SP)+, A1      ; pop return address
  MOVE.W         (SP)+, D0      ; driver reference number
  _DrvRemove     ; $A03E
  MOVE.W         D0, (SP)      ; get error
  JMP            (A1)          ; & split
ENDPPROC

```