

Technical Note TB31

'CDEF' Parameters and Bugs

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This Technical Note describes known bugs in the Control Manager which affect control definition functions ('CDEF' resources).

[Aug 01 1988]

Introduction

The Control Manager chapter of *Inside Macintosh*, Volume I-309, describes how to write a control definition function ('CDEF' resource). This Note assumes a basic understanding of this chapter, specifically of the various messages which are sent in the `message` parameter.

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drawCntrl (0) and autoTrack (8)

When a 'CDEF' is called with either the message `drawCntrl` or `autoTrack`, it is possible for the high word of the `param` parameter to contain undefined data which could result in the failure of routines that rely upon all 32 bits of `param` being defined. 'CDEF' resources should only consider the low word of the `param` parameter when dealing with the `drawCntrl` and `autoTrack` messages.

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posCntrl (5) and thumbCntrl (6)

According to *Inside Macintosh*, the Control Manager calls a 'CDEF' with the `posCntrl` message and the `thumbCntrl` message if an application does custom dragging of an indicator (a thumb), but not if it does default dragging. This is not true. The Control Manager calls a 'CDEF' with the `posCntrl` message if an application does default dragging, which is exactly the opposite of the way it is documented. The 'CDEF' receives the `thumbCntrl` message regardless of which type of dragging an application does, however, the results are used only for default dragging (they are ignored for custom dragging).

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_TrackControl

When a user clicks on your control, you normally call `_TrackControl`, which is supposed to return zero if the user does not change the control's setting or the part code if the user does change the setting. For 'CDEF' resources that implement custom dragging, `_TrackControl` returns zero whether or not the user changes the control's setting. To work around this problem, you must use another method to find out if the user has changed the control's setting, such as comparing the control's value before and after the call to `_TrackControl`.

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References

Inside Macintosh, Volume I-309, The Control Manager

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