MACINTOSH C CARBON – VERSION 1.0

DEMONSTRATION PROGRAM BUG FIXES — 2

Demonstration Programs Controls1 and CarbonEvents 2

There is a bug in the action function for the horizontal scroll bar in both of these programs. Clicking and holding the scroll arrows or gray areas and then moving the mouse cursor outside the control's slop rectangle causes unpredictable behaviour of the scroll box/scroller. To correct this bug, the scrolling code needs to be bypassed if the cursor is no longer over the relevant control part; accordingly adds the lines indicated in the following:

```
// *********************************************************************** actionFunctionHoriz

void  actionFunctionHoriz(ControlRef controlRef,ControlPartCode controlPartCode)
{
  SInt16   scrollDistance, controlValue;
  Str255   valueString;
  WindowRef  windowRef;

  doCopyPString("\pScroll Bar Control Value: ",gCurrentString);

  if(controlPartCode != kControlNoPart) ///////////////////////////////////// ADD THIS LINE
  {                                     ///////////////////////////////////// ADD THIS LINE
    if(controlPartCode != kControlIndicatorPart)
    {
      switch(controlPartCode)
      {
        case kControlUpButtonPart:
        case kControlDownButtonPart:
          scrollDistance = 2;
          break;

        case kControlPageUpPart:
        case kControlPageDownPart:
          scrollDistance = 55;
          break;
      }

      if((controlPartCode == kControlDownButtonPart) ||
         (controlPartCode == kControlPageDownPart))
        scrollDistance = -scrollDistance;

      controlValue = GetControlValue(controlRef);
      if(((controlValue == GetControlMaximum(controlRef)) && scrollDistance < 0) ||
         ((controlValue == GetControlMinimum(controlRef)) && scrollDistance > 0))
        return;

      doMoveScrollBox(controlRef,scrollDistance);
    }

    NumToString((SInt32) GetControlValue(controlRef),valueString);
    doConcatPStrings(gCurrentString,valueString);
    windowRef = GetControlOwner(controlRef);
    doDrawMessage(windowRef,true);
  }                                     ///////////////////////////////////// ADD THIS LINE
}
```

Note that the action function for the live scroll bar in the demonstration program Controls2 does not exhibit this bug.

Thanks to Ian Anderson for this bug report.