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/*
TINYSEGS.C -- Tests segment base addresses in Windows
(and thus, segment/page relationship in Enhanced mode)
Microsoft Systems Journal, December 1992
Andrew Schulman
*/

/* TINYSEG.C */

#include <stdlib.h>
#include <string.h>
#include "windows.h"

#ifdef __cplusplus
extern "C" {
#endif
extern DWORD FAR PASCAL GetSelectorBase(WORD wSel);
extern DWORD FAR PASCAL GetSelectorLimit(WORD wSel);
#ifdef __cplusplus
}
#endif

static char buf[1024] = {0};

int PASCAL WinMain(HANDLE hInstance, HANDLE hPrevInstance,
  LPSTR lpCmdLine, int nCmdShow)
{
  char tmp_buf[128];
  char far *fp;
  HANDLE h;
  char far *flagname;
  WORD flag;
  int i;

  DWORD size = 0x100;     // default 100h bytes
  if (*lpCmdLine)
  {
     lstrcpy(tmp_buf, lpCmdLine);
     size = atoi(tmp_buf);
  }

  for (i=0; i<15; i++)
  {
     if (i<5) { flag = GMEM_FIXED; flagname = "FIX"; }
     else if (i<10) { flag = GMEM_MOVEABLE; flagname = "MOVE"; }
     else if (i<15) { flag = GMEM_DISCARDABLE; flagname = "DISCARD"; }

     if (! (h = GlobalAlloc(flag, size)))
        break;
     if (! (fp = GlobalLock(h)))
        break;
     *fp = 'x';  // touch the memory

     wsprintf(tmp_buf, "%04X (%s)\t%08lX\t%04lX\n",
        h, flagname,
        GetSelectorBase(h), GetSelectorLimit(h));
```

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        strcat(buf, tmp_buf);
    }

    MessageBox(NULL, buf, "TINYSEGS", MB_OK);
    return 0;
}
```