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/* Pooltime.c
lc -bl -cfist -v -y -j73 pooltime
blink FROM LIB:c.o pooltime.o TO pooltime LIB LIB:lc.lib LIB:amiga.lib
quit

This program demonstrates the use of a memory pool to allocate memory
for two timerequest structures. Before pools, the memory required for
the timerequests was allocated using AllocMem().
*/

#include <exec/types.h>
#include <exec/memory.h>
#include <devices/timer.h>

#include <clib/exec_protos.h>
#include <clib/alib_protos.h>

#include <stdio.h>

#ifdef LATTICE
int CXBRK(void) { return(0); } /* Disable Lattice CTRL/C handling */
int chkabort(void) { return(0); } /* really */
#endif

VOID main(VOID);

void main()
{
struct timerequest *TimerIO[3];
struct MsgPort *TimerMP;
struct Message *TimerMSG;
APTR *TimerPool; /* pointer to memory pool */
ULONG x,seconds[3]={4,1,2}, microseconds[3]={0,0,0};
int allin = 3;
char *position[]={"last","second","first"};

if (TimerMP = CreateMsgPort())
{
if (TimerIO[0] = CreateIORequest(TimerMP,sizeof(struct timerequest)) )
{
if (!OpenDevice(TIMERNAME, UNIT_VBLANK,(struct IORequest *) TimerIO[0], 0L))
{
/* Set command to TR_ADDREQUEST */
TimerIO[0]->tr_node.io_Command = TR_ADDREQUEST;

/* Create the memory pool */
if (TimerPool = CreatePool(MEMF_FAST,400,200))
{
/* Allocate pooled memory from TimerPool */
if (TimerIO[1]=(struct timerequest *)
AllocPooled(TimerPool,sizeof(struct timerequest)))
{
/* Allocate pooled memory from TimerPool */
if (TimerIO[2]=(struct timerequest *)
AllocPooled(TimerPool,sizeof(struct timerequest)))
{
/* Copy fields from request used to open the timer device */
*TimerIO[1] = *TimerIO[0];
*TimerIO[2] = *TimerIO[0];

/* Initialize other fields */
for (x=0;x<3;x++)
{
TimerIO[x]->tr_time.tv_secs = seconds[x];
TimerIO[x]->tr_time.tv_micro = microseconds[x];
}

printf("\n\nSending multiple requests\n\n");

/* Send multiple requests asynchronously */
SendIO(TimerIO[0]);
SendIO(TimerIO[1]);
SendIO(TimerIO[2]);

/* Now go to sleep with WaitPort() waiting for the requests */
while (allin)
{

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WaitPort(TimerMP);
TimerMSG=GetMsg(TimerMP); /* Get the reply message */
for (x=0;x<3;x++)
if (TimerMSG==(struct Message *)TimerIO[x])
printf("Request %ld finished %s\n",
x,position[--allin]);
}
}
else
printf("Error: Could not allocate memory for TimerIO[2]\n");
}
else
printf("Error: Could not allocate memory for TimerIO[1]\n");

/* Delete the entire pool. You could also free each individual
* allocation using FreePooled(), but this is quicker because a pool's
* puddles are automatically drained when you delete the pool.
*/
DeletePool(TimerPool);
}
else
printf("Error: Could not allocate memory pool\n");

CloseDevice(TimerIO[0]);
}
else
printf("Error: Could not open %s\n", TIMERNAME);

DeleteIORequest(TimerIO[0]);
}
else
printf("Error: could not create IORequest\n");

DeleteMsgPort(TimerMP);
}
else
printf("Error: Could not create message port\n");
}
}

```

