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Subject: : AmigaOS4

Topic: : how to work properly with device when you need query every 5 seconds

how to work properly with device when you need query every 5 seconds

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URL:

The question comes up after finding that when you need one time in a 5-second query something from a serial device, then if you open-close device for every query, then you have 100% CPU load hit on that time. I.e there is init code:

```
BOOL initX5000serial(struct DockeyData *dd)
{
    BOOL res = FALSE;
    int8 err = 0;

    dd->port = IExec->AllocSysObject(ASOT_PORT, NULL);
    if(dd->port)
    {
        dd->req = IExec->AllocSysObjectTags(ASOT_IOREQUEST, ASOIOR_Size, sizeof(struct IOExtSer),
            ASOIOR_ReplyPort, dd->port, TAG_DONE);

        if(dd->req)
        {
            if(IExec->OpenDevice("serial.device", 1, (struct IORequest*)dd->req, 0) != -1)
            {
                // Set parameters to address MCU
                dd->req->IOSer.io_Command = SDCMD_SETPARAMS;
                dd->req->io_Baud = 38400; // 38400 Baud
                dd->req->io_ReadLen = 8; // 8 bit data
                dd->req->io_WriteLen = 8; // 8 bit data
                dd->req->io_StopBits = 1; // 1 Stop bit
                dd->req->io_SerFlags &= ~SERF_PARTY_ON; // No Parity
                dd->req->io_SerFlags |= SERF_XDISABLED; // No Flow Control
                err = IExec->DoIO( (struct IORequest*)dd->req );
                if(err == IOERR_SUCCESS)
                {
                    res = TRUE;
                }
            }
        }
    }
}
return(res);
```

There is de-init code:

```
void closeX5000serial(struct DockyData *dd)
{
    if(dd->dev_open) { IExec->CloseDevice( (struct IORequest*)dd->req ); dd->dev_open = FALSE; }
    if(dd->req) { IExec->FreeSysObject(ASOT_IOREQUEST, dd->req); dd->req = NULL; }
    if(dd->port) { IExec->FreeSysObject(ASOT_PORT, dd->port); dd->port = NULL; }
}
```

Now if we do something like:

```
dd->dev_open = initX5000serial(dd);
if(dd->dev_open)
{
    QueryTemp(dd);
    QueryVoltFan(dd);
}
```

We then hit 100% CPU loading every time we query our stuff.

If I remember right, it is correct to open/close the device for every query, right? And it should be not opened all the time?

Any advice is welcome, thanks!