

Re: LCD_Backlight

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-04/msg00675.html>

- *From:* "voidcoder" <voidcoder@xxxxxxxx>
 - *Date:* Mon, 24 Apr 2006 08:44:45 +0200
-

Ops, typo in my prev post:

```
DWORD dwBacklightTimeout = ReadTimeoutFromRegistry(...);
```

```
while (TRUE)
```

```
{  
WaitForSingleObject(hInactivityTimer, INFINITE);
```

```
if (WaitForSingleObject(hActivityTimer, dwBacklightTimeout) ==  
WAIT_TIMEOUT)
```

```
{  
TurnBacklightOff();  
WaitForSingleObject(hActivityTimer, INFINITE);  
TurnBacklightOn();  
}  
}
```

"voidcoder" <voidcoder@xxxxxxxx> wrote in message
news:ewg0qm2ZGHA.1560@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

I'm not sure what are you doing there. Post you code.

Have not used activity timers this way, but it should be possible to use something like this:

```
DWORD dwBacklightTimeout = ReadTimeoutFromRegistry(...);
```

```
while (TRUE)
```

```
{  
WaitForSingleObject(hInactivityTimer, INFINITE);
```

```
if (WaitForSingleObject(hActivityTimer, dwBacklightTimeout) ==
```

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```
WAIT_OBJECT_0)
{
TurnBacklightOff();
WaitForSingleObject(hActivityTimer, INFINITE);
TurnBacklightOn();
}
}
```

"Anurag" <Anurag@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:4810CF02-46E0-435B-9E63-BC98D849FEF9@xxxxxxxxxxxxxxxxxxxx

Hello Voidcoder,
Thankyou for reply !!!!
Actually I am able to access the events in my backlight driver ie it does set the activity event("PowerManager/SystemActivity_Active") during boot then after 10 sec(set in registry) it sets the inactivity event ("PowerManager/SystemActivity_Inactive") and I am able to acknowledge it in my backlight driver. I am trying to set the activity event in my touch driver so that every time i touch the screen the activity event is set and the the activity timer count initializes. Now this does not happen!! I am setting the event as follows:
if(SetEvent(SysAct_Reset))
NKDbgPrintfW(TEXT("ASA:Reset event set\r\n"));

Note: SysAct_Reset is the handle to
"PowerManager/ActivityTimer/SystemActivity" event

what happens is that once the inactivity event is set the light goes off and does not resume back. I am resetting the manual reset inactivity event ("PowerManager/SystemActivity_Inactive") by reset event.
What could be the issue ??? In anticipation of your reply ASAP.

"voidcoder" wrote:

Actually activity timers are named as follow:

```
PowerManager/ActivityTimer/$Activity$
PowerManager/$Activity$_Active
PowerManager/$Activity$_Inactive
```

Eg.

```
"PowerManager/ActivityTimer/SystemActivity"
"PowerManager/SystemActivity_Active"
"PowerManager/SystemActivity_Inactive"
```

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Use OpenEvent() to access events.

"Anurag" <Anurag@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote
in message
news:A2F1D358-DE0B-4FC6-B084-D283DAADF6F2@xxxxxxxxxxxxxxxxxxxx

Hello Voidcoder,
Thankyou for your reply .
certainly setting the power states would be
much better however for the
purpose of curiosity I tried adding that
registry entry
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Power\ActivityT
"Timeout"=dword:A

and then created the events with the same
names i.e, SystemActivity_Active
&
SystemActivity_Inactive in my driver
however these events get created. Now
according to WinCE documentation (wince
help topic Activitytimers) Upon
initialization, the Power Manager reads the
registry to acquire a list of
activity timer names and creates the
following events:
A timer reset event.
An active status manual-reset event.
A manual-reset event.

hence when i create the events with thier
names Createevent() should
return
ERROR_ALREADY_EXISTS however this
doesn't happen the events get created.
why is it so???

What needs to be done in this case??

"Voidcoder" wrote:

I would advice to not touch
the system activity
timer directly. Better build a
simple driver and
handle the power IOCTLS.
You will need to
handle
IOCTL_POWER_SET ioctl
this way:

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IOCTL_POWER_SET – D0

-> turn backlight on

IOCTL_POWER_SET – D1

-> turn backlight off

"Anurag"

<Anurag@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:ADEEAC32-2DCE-4ABF-B45C-E83EC1BE1D1F@xxxxxxxxxxxxxxxx

Hello

everybody,

I am trying

to develop a

screen saver

like facility

for my

WINCE

Image

i.e,

after a

predifined

time of

inactivity

the LCD

backlight

should be

OFF

and

on some

activity like

a touch on

the

touchscreen

the

backlight

should

get ON

I referred

the wince

documentation

"activity

timer "and

find that

activity

timers can

be used i.e,

set an

activity

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```
timer  
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Power\PowerSettings\{...}\Attributes\Attributes  
"Timeout"=dword:A  
"WakeSources"=multi_sz:"0x20"
```

and the
power
manager
handles the
events..
Also the
event can be
handled via
driver. In
my case I
am using
the wince
full power
management
as it is.

I am
a bit
confused on
the overall
working as
to how do i
open a
handle to
the
reset event
in a driver?
once the
timeout is
done how
do i turn off
my
backlight?
In my target
the
backlight is
located on a
gpio and
can be
controlled
via it
. Should i
create a
bcklight
driver? if
yes how to

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call the
driver
once the
timeout is
done.
I would be
highly
obliged to
recieve your
guidance
regarding
the same
Thankyou.

Ansh