

## Shared interrupts XScale

**Source:**

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2004-12/0387.html>

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Hi.

Since I can't find any simple solution under WinCE to use edge driven interrupts in the GPIO2\_XXX range, I'm going to move to shared interrupts. I hope this will help to catch all GPIO2\_XXX interrupts without missing edges (as advised some MS guys here).

Ok. The majority of drivers from the PUBLIC/Common/OAK/DRIVERS/ do not have support for interrupt sharing: starting with VMINI and finishing with different MDDs!!!

**THEY DO NOT SUPPORT INTERRUPT SHARING!!!**

They just use simple InterruptInitialize(SYSINTR, event, ...) to attach interrupts ...

Touch MDD, PC-CARD MDD, SD-CARD MDD, VMINI, ect etc etc – all use separate interrupt sources.

Ok, the question is: can I copy this drivers to my BSP directory and modify for using with shared interrupts without to break any licencing?

Also it's absolutely not clear why IST is always implemented in the MDD? Since interrupt handling is "platform dependent" thing, why IST is always implemented in the MDD (Model Driver) and not in the PDD (Platform Dependent Driver)? Is it any reason for this, may be some deep idea that I can't get?

Thanks