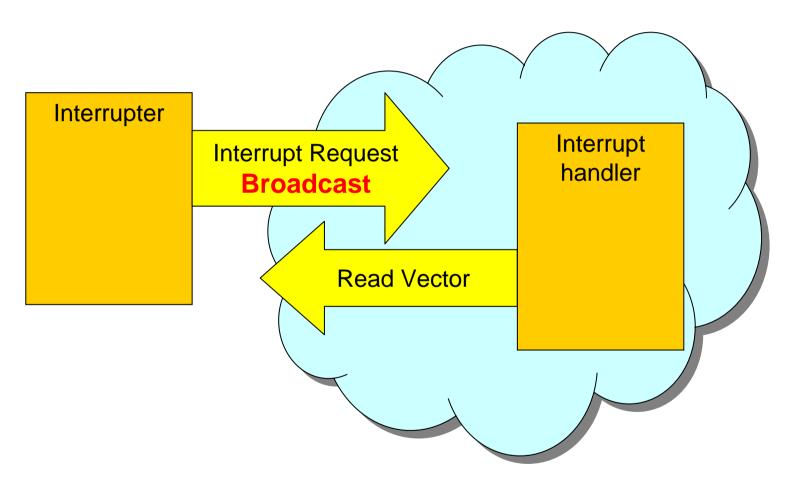
# Task synchronization over SpW

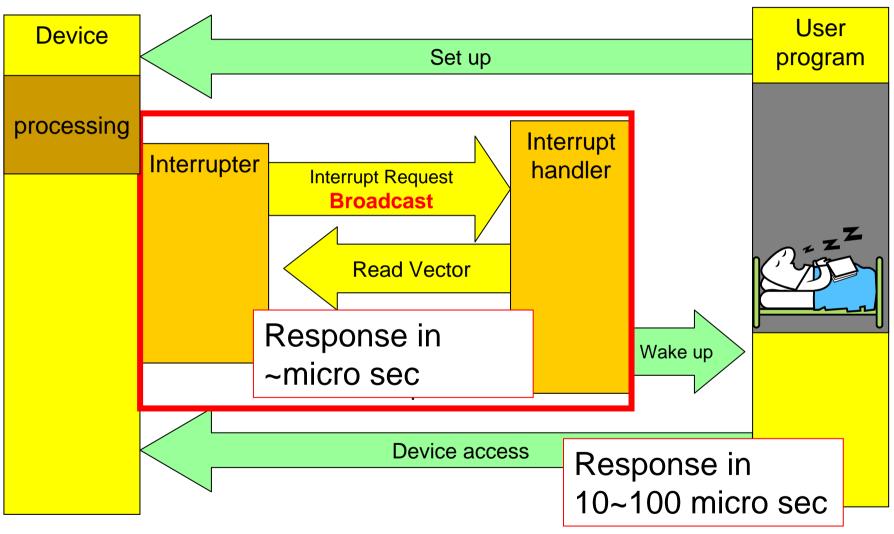
Osaka U.
NOMACHI, Masaharu

#### Interrupt on VME bus



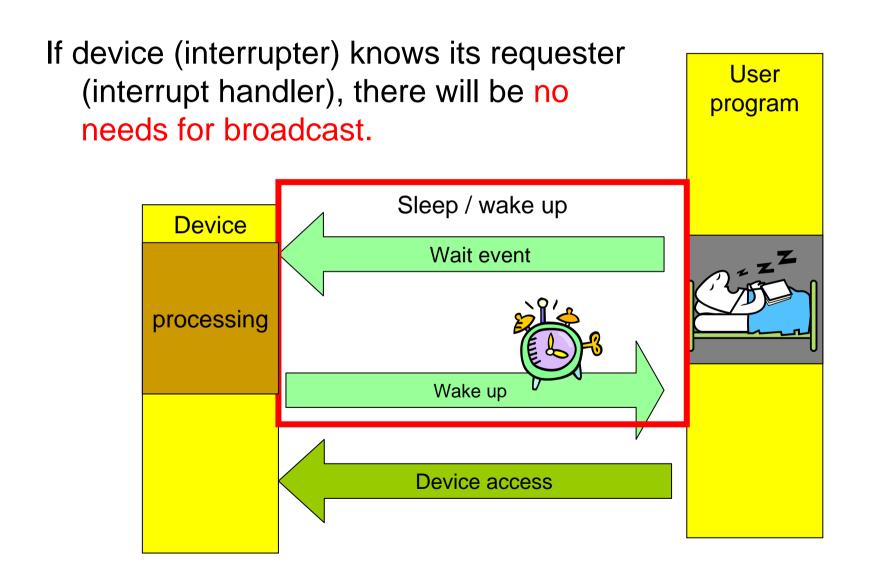
Communication between strangers.

#### Interrupt in the user program

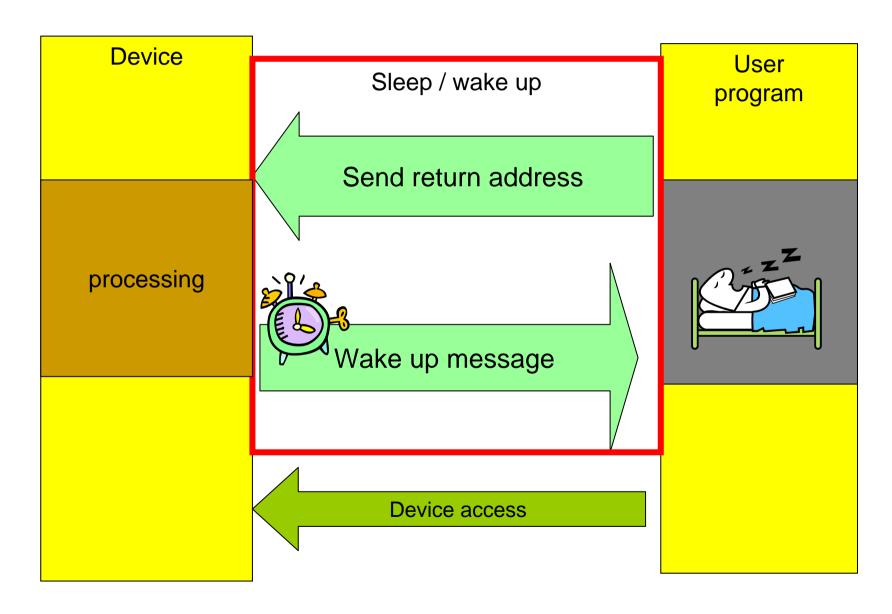


User program knows the device

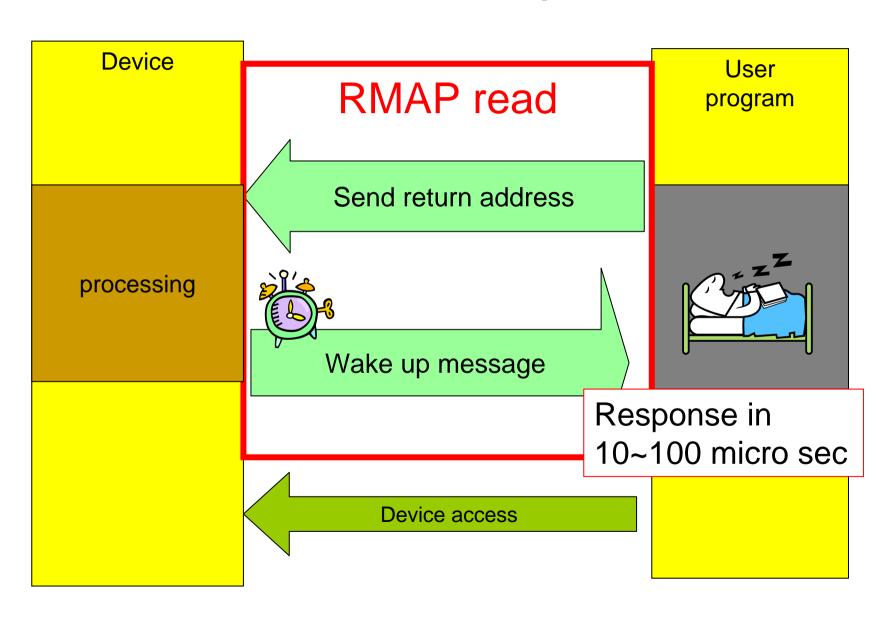
#### Do we need broadcast?



## How to implement on SpW?

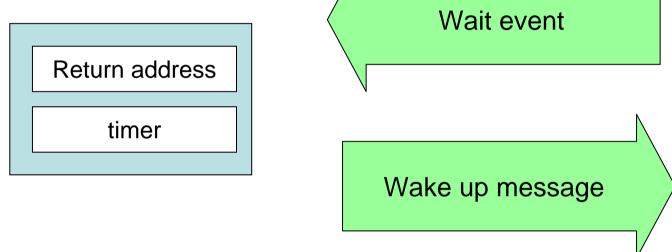


### Do we need new protocol?



## Interrupt register (event flag)

Hardware implementation



Read wake up message

-1: Busy. Another process is already waiting.

0: Event already exist.

n>0: Event occurs after "n" tick.

Write interrupt register

0 : cancel

#### summary

- In application level, message broadcast is not always required.
- Device should remember the requester.
- Wake up mechanism can easily implemented on RMAP protocol.
- Implementation on hardware. No needs for new protocol.