C166S-V2 CPU Architecture Interrupt/PEC
Additional features to C16x

XC16x

- 16-Priority-level interrupt system
  - up to 128 sources with 16 levels on 8 groups
- PEC
  - Triggered by interrupts from level 15 to 8
  - 24 bit addressing
  - increment of source and / or destination pointers
  - Additional End of PEC interrupt node

C16x

- 16-Priority-level interrupt system
  - up to 64 sources with 16 levels on 4 groups
- PEC
  - Triggered by interrupts from level 15 to 14
  - 16 bit addressing
  - increment of source or destination pointers
  - End of PEC interrupt at regular PEC node

C166S-V2 CPU Architecture Interrupt/PEC
Additional features to C16x

XC16

- Context Switch
  - 19 cycle (950ns @20 MHz) context switch for Global Register Banks
  - 0 cycle context switch for 2 new register banks (not memory mapped)

C16

- Context Switch
  - 4 cycle (400ns @20 MHz) context switch for Global Register Banks