Real-time Architectures Literature study concerning FPDS

Group 1

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- Motivation for FPDS
- Development Considerations
- Architecural Considerations
- Application Domains
- Conclusions

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Motivation for FPDS

- Cost of arbitrary pre-emptions of FPPS
- Complexity of resource access protocols for FPPS

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Development Considerations

- Inserting pre-emption points
 - Using a compiler
 - Manually

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- Piplined- vs General purpose processors
- Cache, local and global memory
- Interrupt Handeling
- Multi Processor Systems

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Application Domains

- Control Systems
- Hight Quality Video

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Conclusions

FPDS is suitable for applications, which requires caches, where very occasional deadline misses of high priority tasks are acceptable.

Questions?