

Asymmetric Multi-Core Systems (AMC)

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graph TD; AMC[Asymmetric Multi-Core Systems (AMC)] --> HPC[HPC market]; AMC --> Mobile[Mobile market]; HPC --> TBM[Task-Based Programming Models]; HPC --> AppSched[App-based scheduling (pthreads)]; TBM --> Compiler[Compiler]; TBM --> RS[Runtime System]; RS --> DA[Dependence Analysis]; RS --> Sched[Scheduling]; RS --> RA[Resource Allocation]; Mobile --> Android[Android]; Mobile --> OtherOS[Other OS]; Android --> LinuxKernel[Linux Kernel (CFS/GTS Scheduling)]; Android --> AndroidFramework[Android Framework]; AndroidFramework --> RTS[Real-Time Scheduler];
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HPC market

**Task-Based
Programming
Models**

**App-based
scheduling
(pthreads)**

Compiler

Runtime System

**Dependence
Analysis**

Scheduling

**Resource
Allocation**

Mobile market

Android

Other OS

**Linux Kernel
(CFS/GTS Scheduling)**

**Android
Framework**

**Real-Time
Scheduler**