

EDA Forecast Dinner

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Tensilica

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Published January 24, 2008 10:22 AM

Wood Chips and the U.S. Economy

The Climate

- Some Harsh Realities of the Recession
 - Semiconductor industry experienced a very weak Q4 and expects more of the same in 2009
 - Impact is global – no regions are immune (though timing will vary)
 - Near-term impact on
 - Purchasing process – buyers have become intensely cash conscious. Uncertainty creates ample reasons to delay, few reasons to accelerate deal sign-off
 - Program stretch-out and lay-offs exert pressure on prices, seats,
 - Particularly tough environment for start-ups – secular shift of VCs away from semiconductor-related investment
- But design continues
 - Recession is not about electronics, so expectations for long-term opportunities in consumer, communication and computing remain bright
 - Cheaper deep-sub-micron wafers accelerates transition to 65 and 45nm
→ new tools and IP
 - Maximizing differentiation provides greatest defense against semiconductor price erosion

The IP Outlook

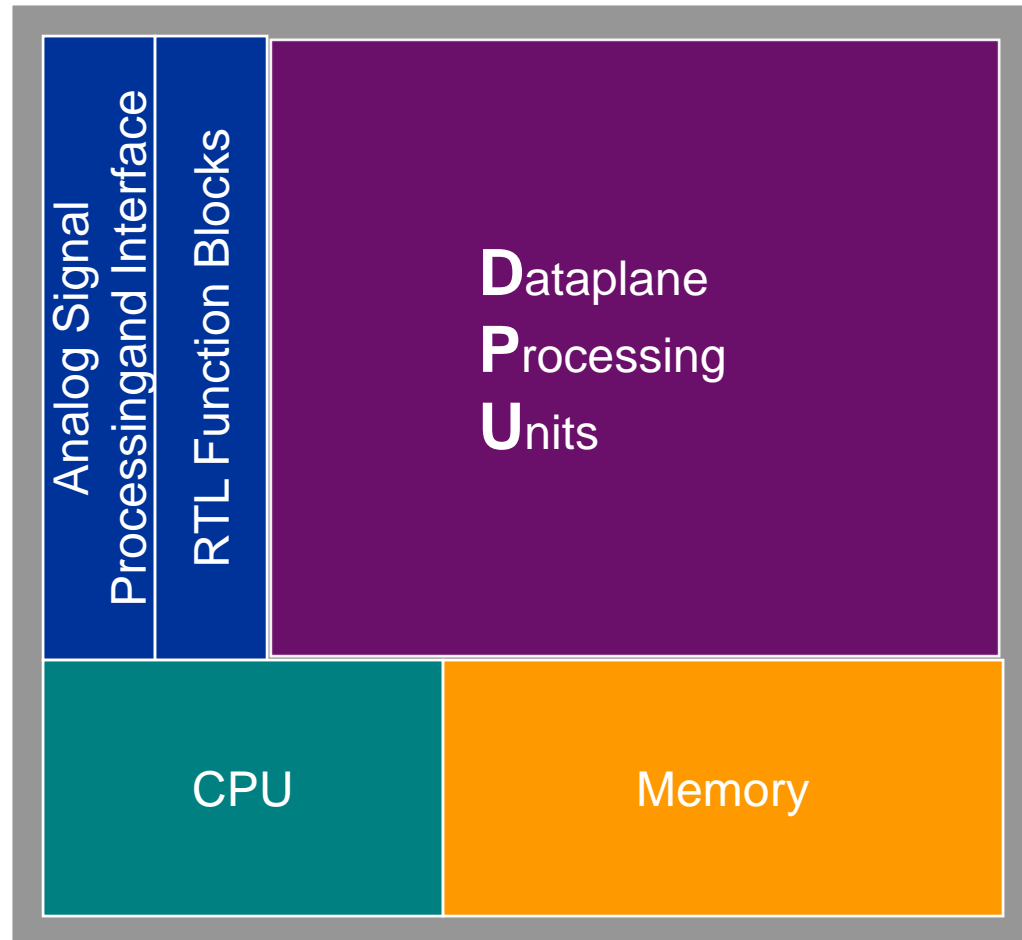
- IP is more than out-sourcing: cuts overall costs, reduces risk and enables more complete SOC integration
- Strongest segments: Digital and analog signal processing (aka “the dataplane”)
- Most challenging area: physical and block libraries (commoditized by foundries?)

| Group | Category | 2008 Market Size | Growth % |
|-----------------|----------------------------------|------------------|------------|
| Processors | Microprocessors | 582 | 6.2 |
| | Digital Signal Processors | 52 | 21 |
| Physical IP | Analog and Mixed Signal | 205 | 22 |
| | PHY | 149 | 8.4 |
| | Memory cells/blocks | 132 | 4 |
| | Physical library | 62 | -6 |
| Other IP | Fixed function signal processing | 182 | 16 |
| | Interface controllers | 79 | 5.5 |
| | Block libraries | 29 | -16.5 |
| | Infrastructure IP | 34 | 3.1 |
| | Miscellaneous IP | 28 | -11.4 |
| | Controllers and peripherals | 6 | -15.2 |
| | Total design IP | 1486 | 8 |
| | Technology licensing | 587 | 6.8 |
| Total IP | | 2073 | 7.7 |

Source: Gartner Dataquest Inc preliminary market size based on Q1-Q3'08, actual likely to fall below 7%, 12/2008

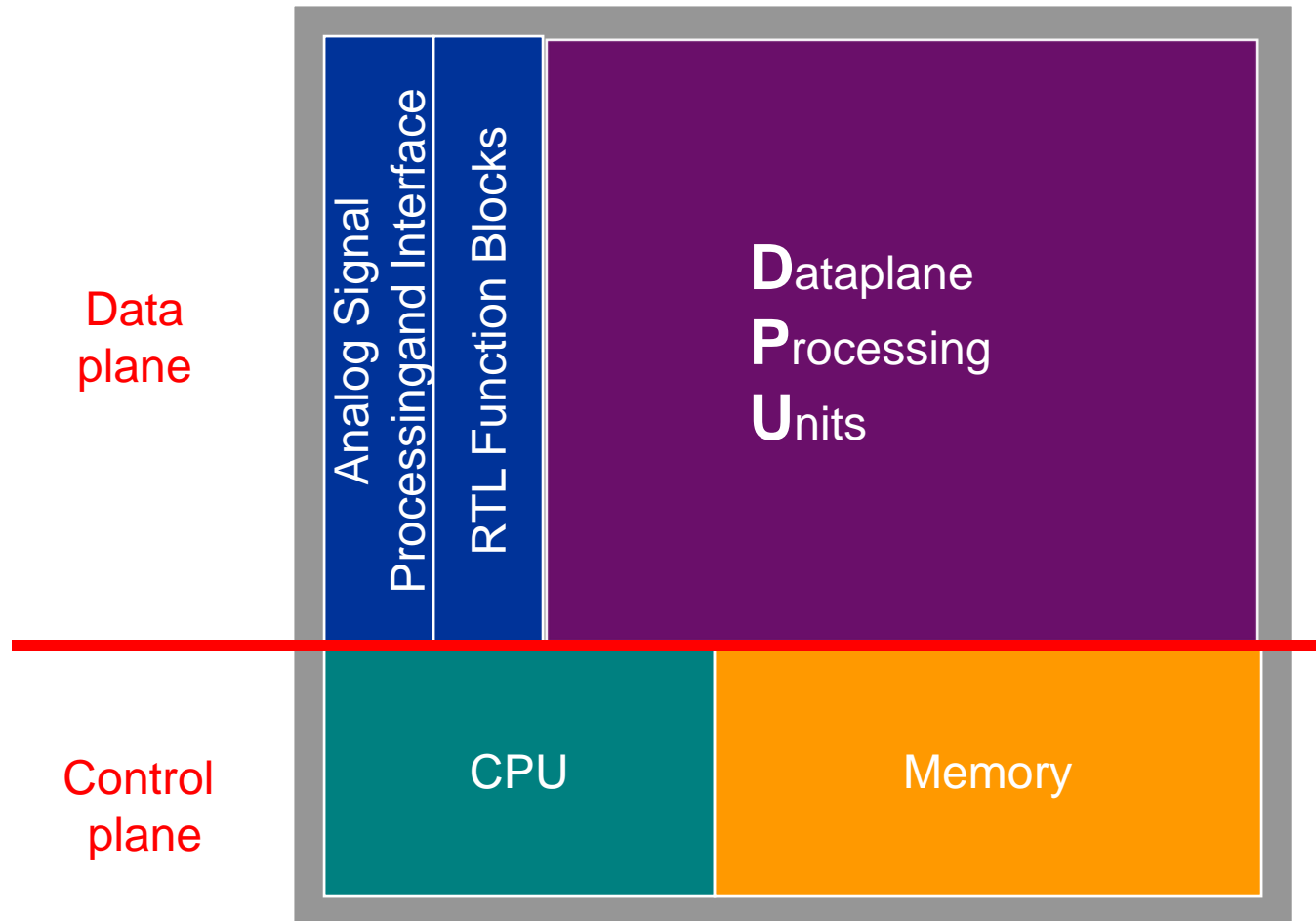
Strong Growth in Dataplane processors

Configurability and programmability aid differentiation and time-to-money



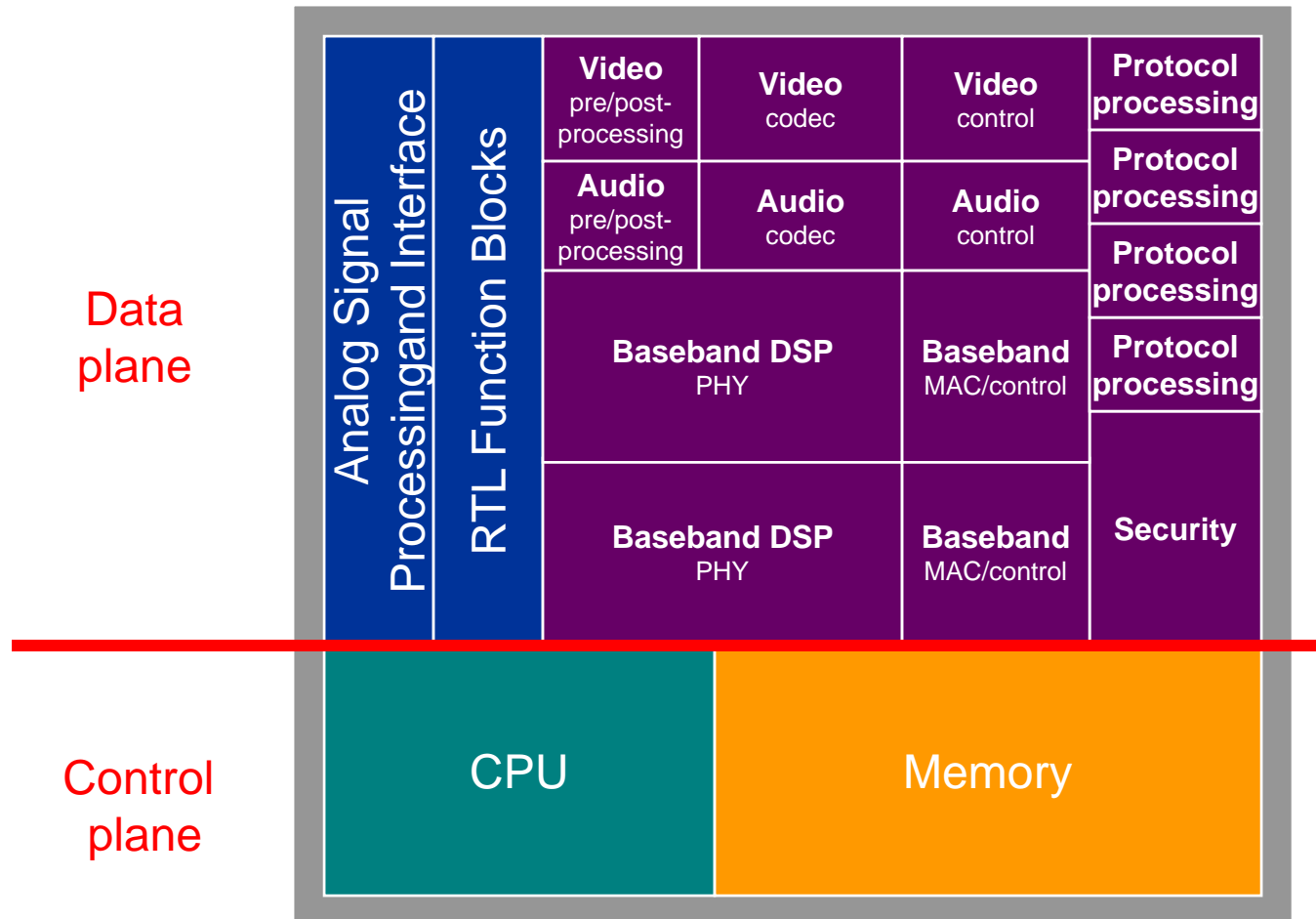
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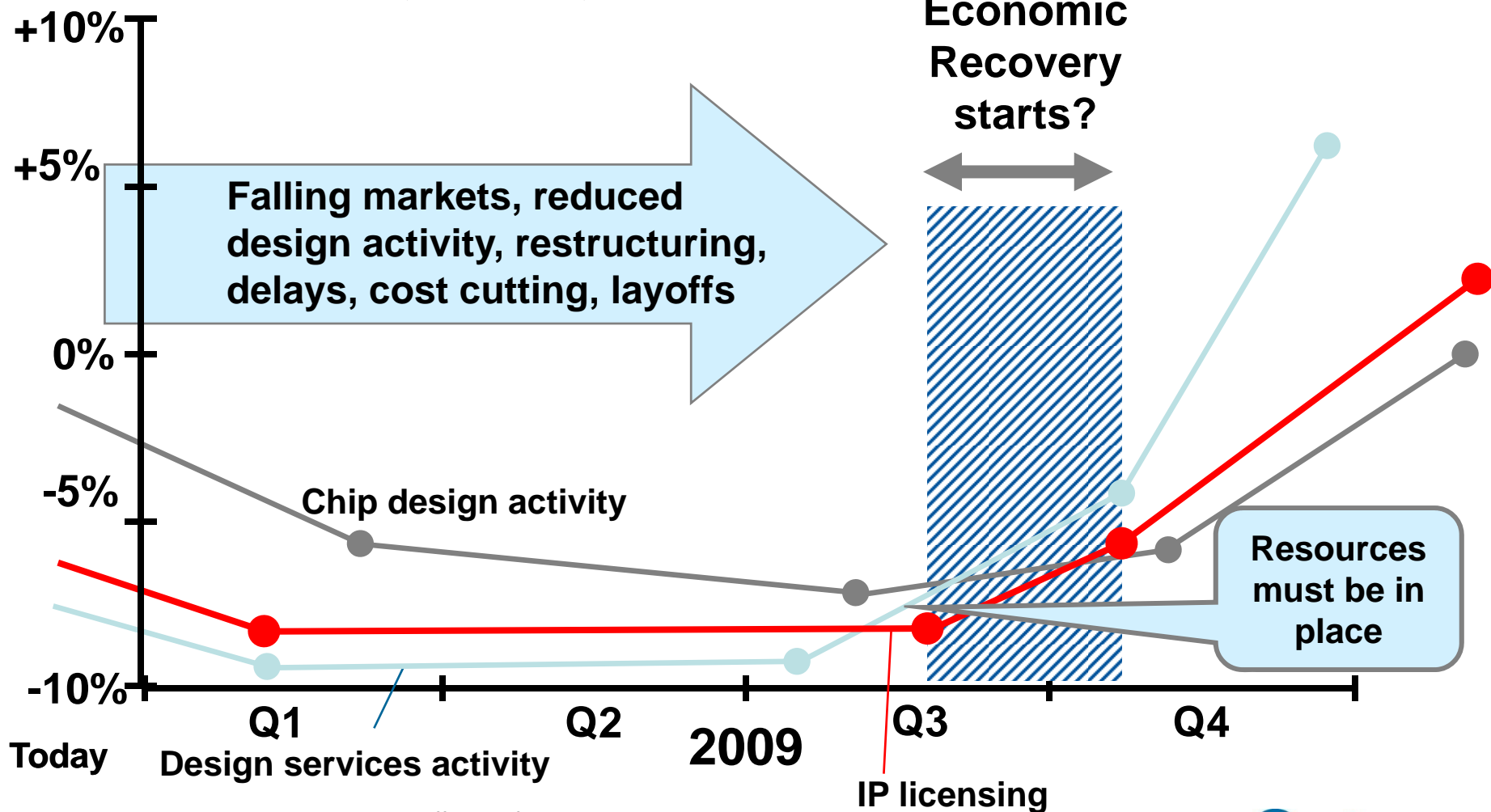
Strong Growth in Dataplane processors

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The Recession: Design Services and IP will Recover Quickly

Delta Annual Growth – Quarter to Quarter



Note: Revenue patterns may be different from Activity patterns

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IP in 2009

- Impact of the Downturn:
 - Semiconductor industry: maturing growth plus a squeeze between falling prices and rising design costs
 - The downturn and shift in funding methods will drive structural change – consolidation is inevitable
 - IP and design services are increasingly central to leaner semiconductor model - will lead industry out of recession and continue to outgrow semiconductor industry
- Semiconductor and OEMs own significant algorithm, hardware and software IP, but not likely to productize (instead “focus on core business”). Will seek ways to better leverage and proliferate algorithm know-how internally
- Winning positioning themes:
 - “we can help you cut costs”
 - “we can help you innovate”
 - “we can help you reuse and leverage your core competencies”

A Quick Closing Thought

- EDA/IP Industry looking at some challenging quarters
- Moore's law says "Integrate or Die". The underlying value proposition for EDA and IP remain very strong as we enable that integration
- A period of rich innovation: "Necessity is the mother of invention" for new business models, advanced tools, differentiated IP
- I am touched by the commitment of suppliers, partners, and customers to jointly cope with the upheaval. We will be a stronger industry community as a result.