オープンソース技術者のための AMD 最新テクノロジーアップデート

日本AMD株式会社
マーケティング＆ビジネス開発本部
エンタープライズプロダクトマーケティング部
山野 洋幸

CPUおよびプラットフォーム ロードマップアップデート

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Happy 6th Birthday AMD Opteron™ Processor

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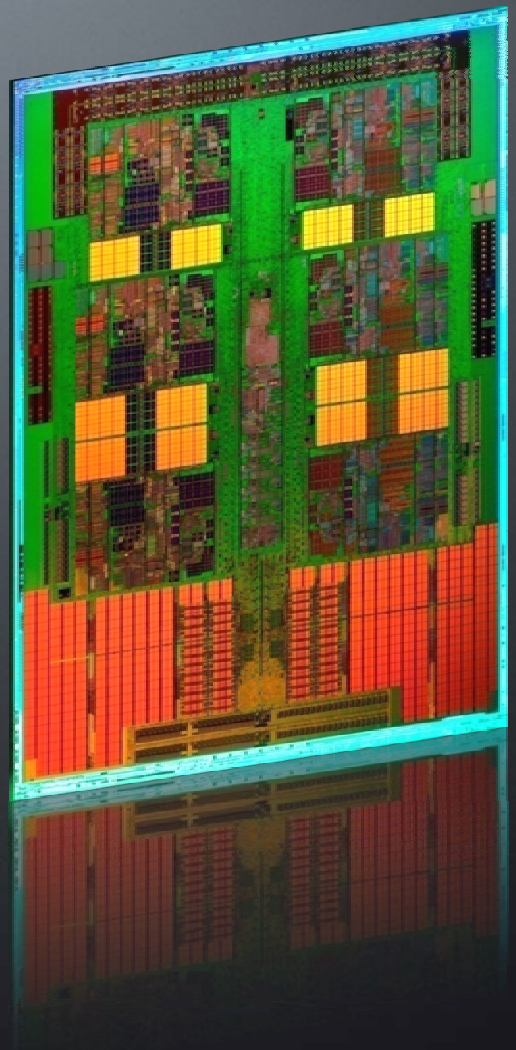
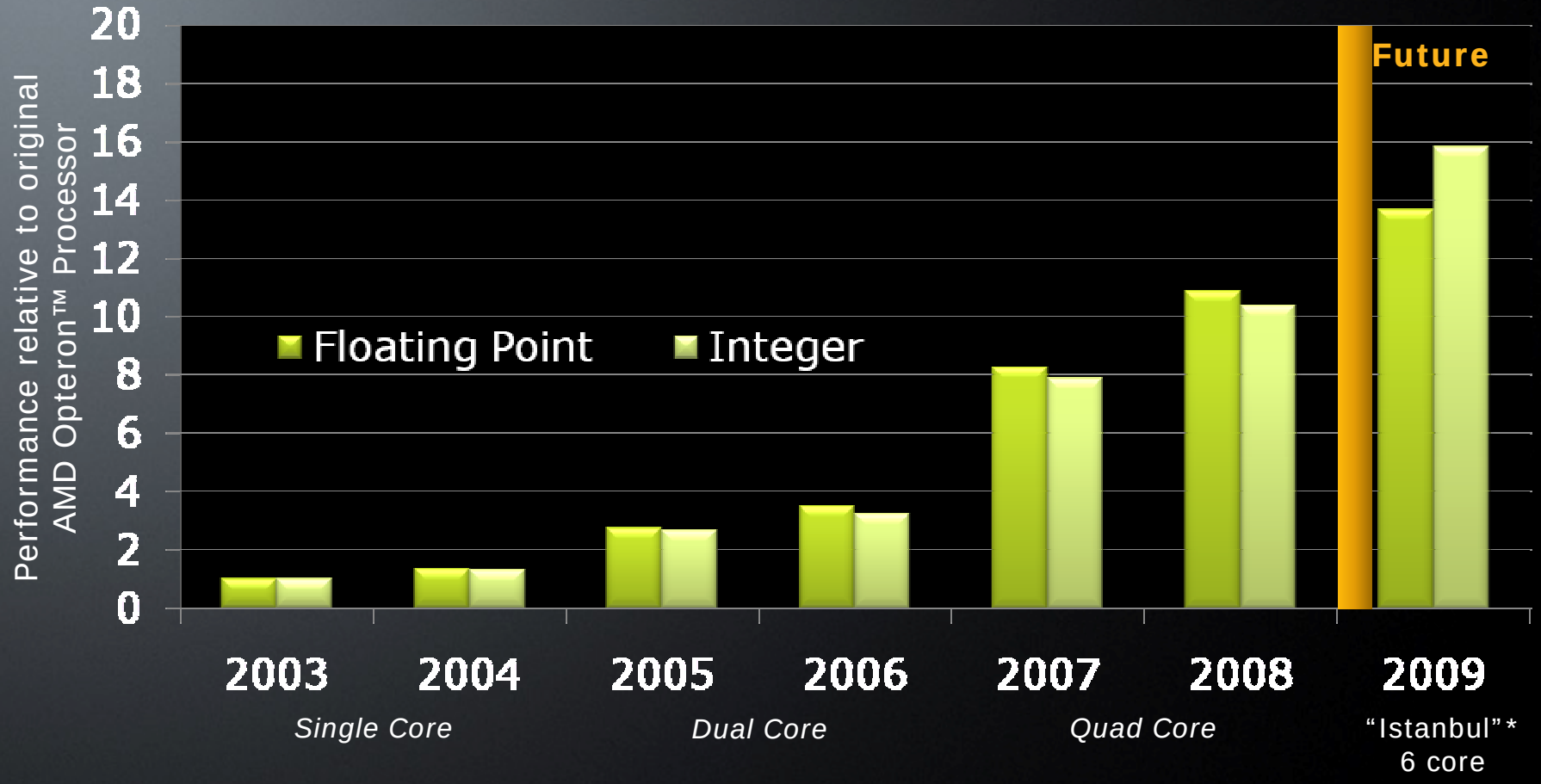
6コア“Istanbul”: 完全な進捗状況



- Executing months ahead of schedule
- In collaboration with GLOBALFOUNDRIES: first tapeout to production
- World’s only six-core processor with Direct Connect Architecture
- 30% more performance than previous generation at same power
- 2P, 4P, 8P
- June 2009 planned launch with OEMs

“Istanbul”: 同じ熱設計枠でさらなる性能アップ



30% more performance at same power

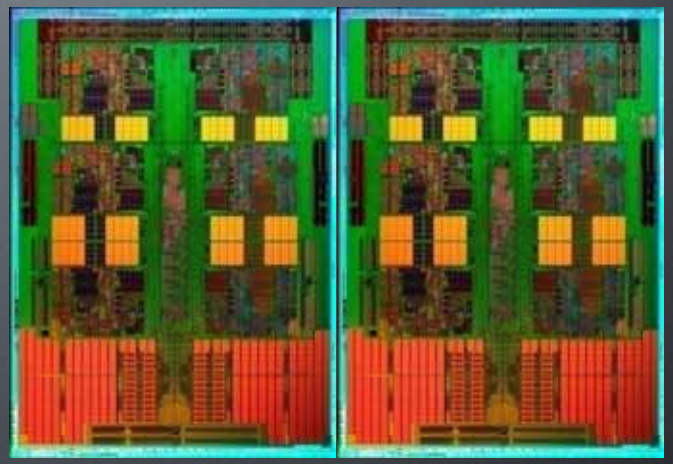
**“Istanbul“ data is based on AMD projections*

AMD Opteron™ プロセッサ: 6年目に6コアに

	Next Gen Server Architecture	The Next Chapter: DCA 2.0
	2009	2010
CPU	6 cores	Direct Connect Architecture 2.0
Memory	2 Channel Integrated Controller	
I/O	3 HyperTransport Links with HT Assist	
Virtualization	AMD-V	AMD-V 2.0
Energy Efficiency	AMD-P	AMD-P 2.0
Time to Benefit	Common Socket & Power Envelope 2P, 4P, 8P	Usage-based platform design

Direct Connect Architecture 2.0

System architecture defines the performance of the server



- 3x core increase
- 2x memory channels
- 3.3x memory speeds
- 1.9x HT bandwidth
- 2.2x cache

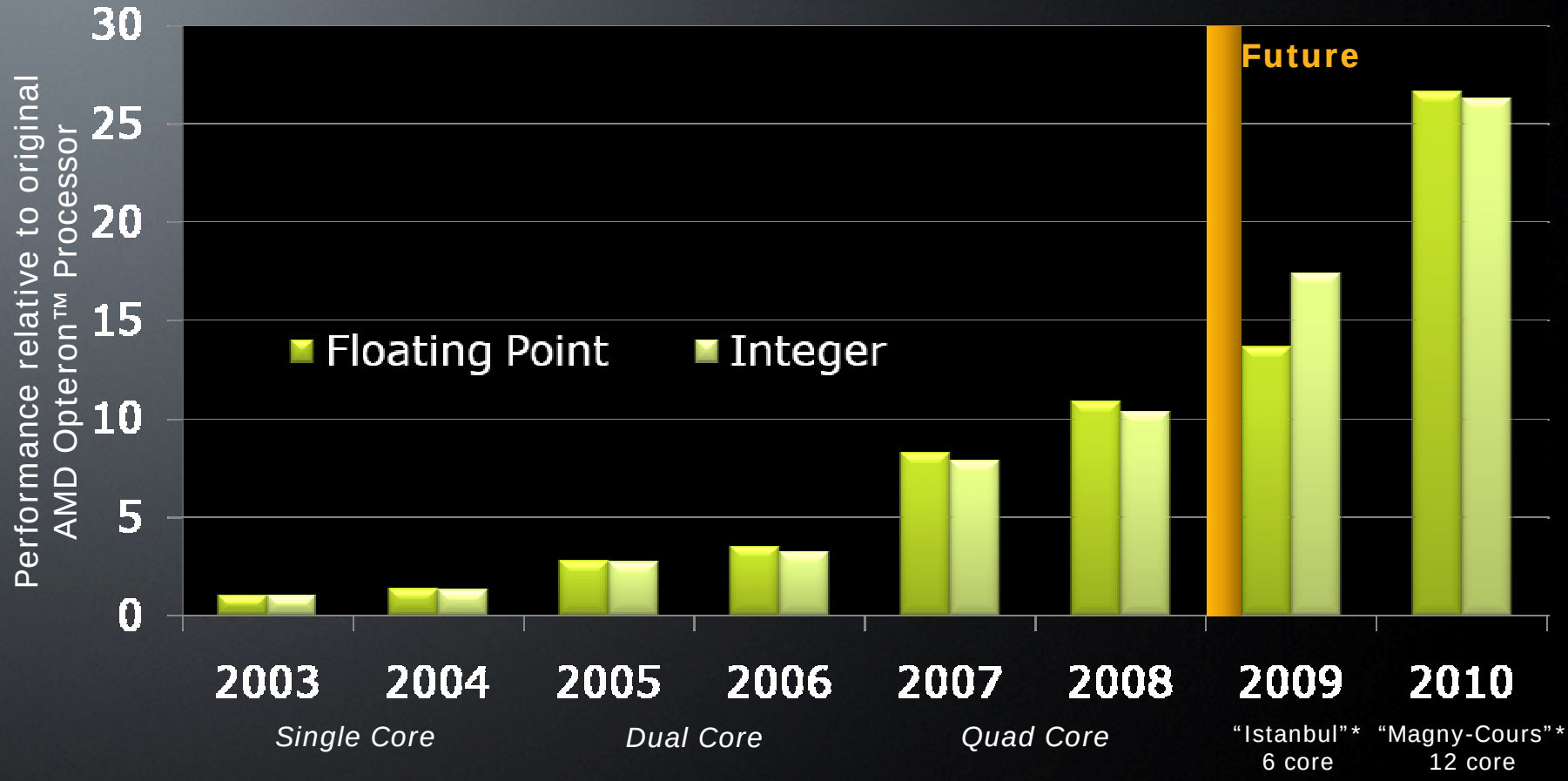
Run more VMs per server

Virtualize more of your applications

More than 2x performance, similar power

Based on comparison of "Shanghai" to "Magny-Cours"

“Magny-Cours” と DCA 2.0による性能の向上



Biggest absolute performance-per-watt uplift in 2010

**“Istanbul“ and “Magny-Cours” data is based on AMD projections*

すべての価格帯で充実した機能を提供、最大価値を実現

AMD-V™スイート

- Rapid Virtualization Indexing
- Tagged TLB
- Extended Migration
- Asymmetric Migration

AMD-P スイート

- AMD Smart Fetch technology
- AMD Power Cap technology
- AMD CoolCore™ technology

Each feature suite available across full AMD Opteron™ Processor family

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すべての価格帯で充実した機能を提供、最大価値を実現

AMD-V 2.0

- AMD-Vi (IOMMU)
- Rapid Virtualization Indexing
- Tagged TLB
- Extended Migration
- Asymmetric Migration

AMD-P 2.0

- APML
- AMD Smart Fetch technology
- AMD Power Cap technology
- AMD CoolCore™ technology

Each feature suite available across full AMD Opteron™ Processor family

AMD
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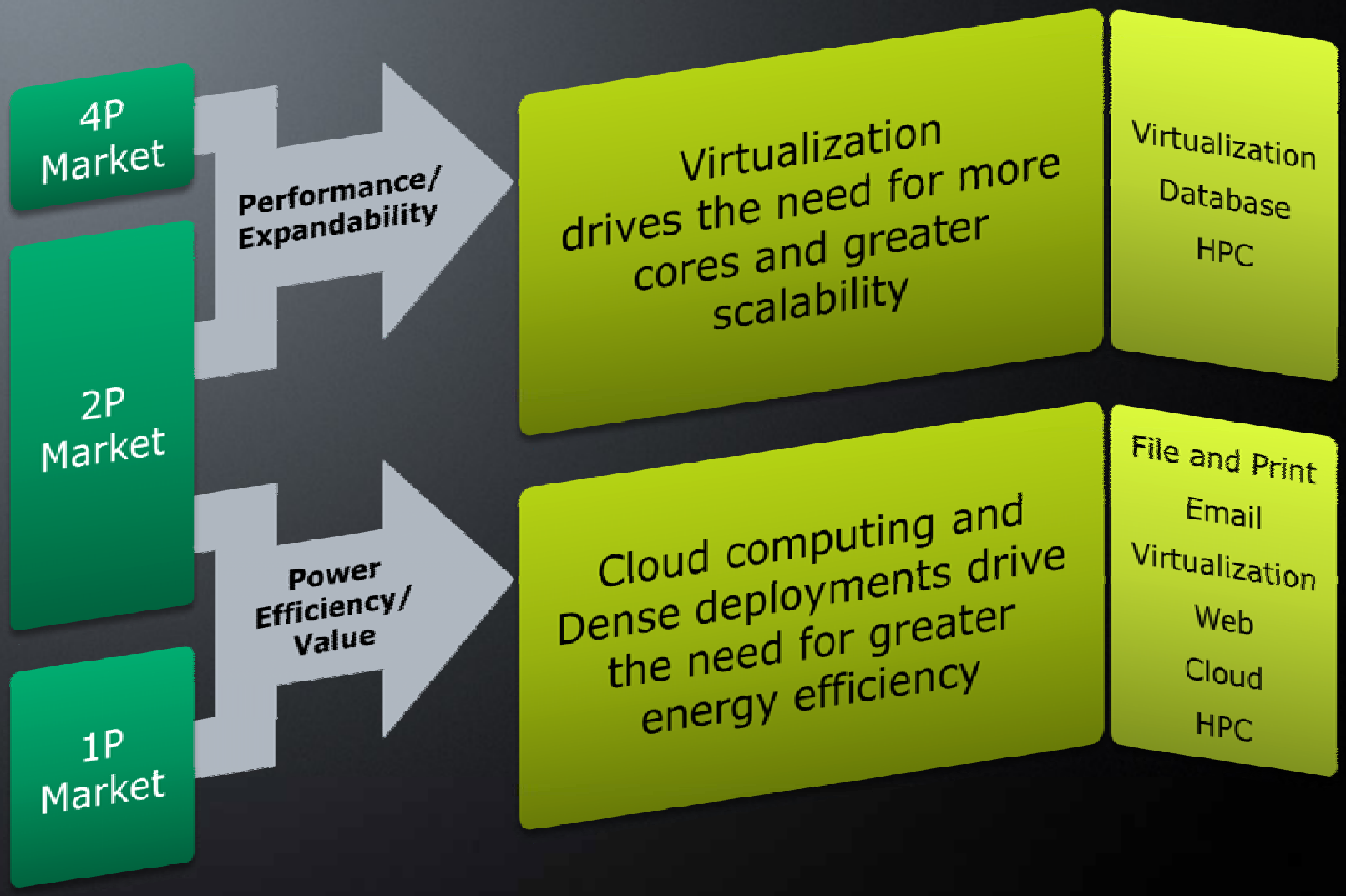
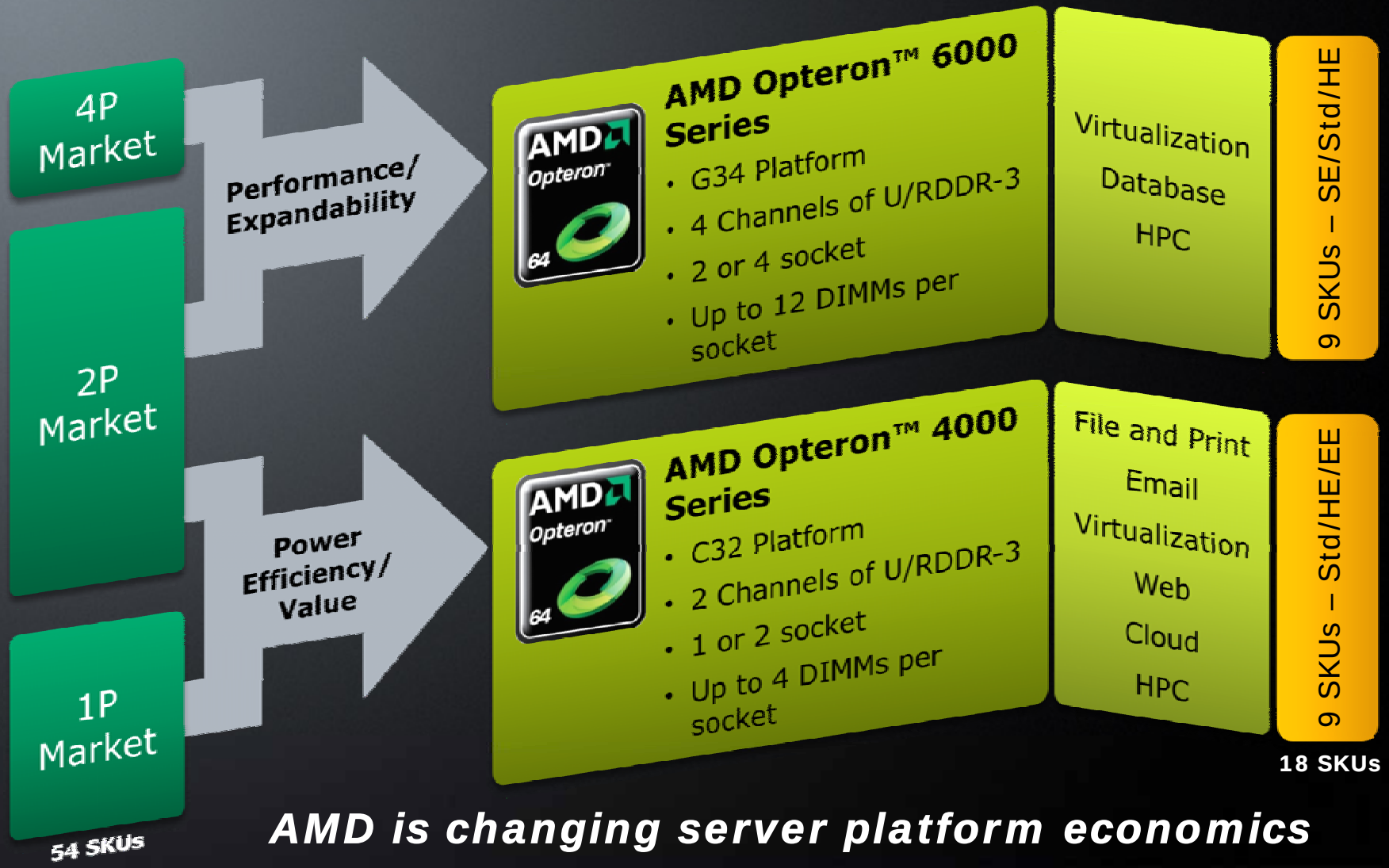
顧客にとっての価値の変化が市場構造を変革

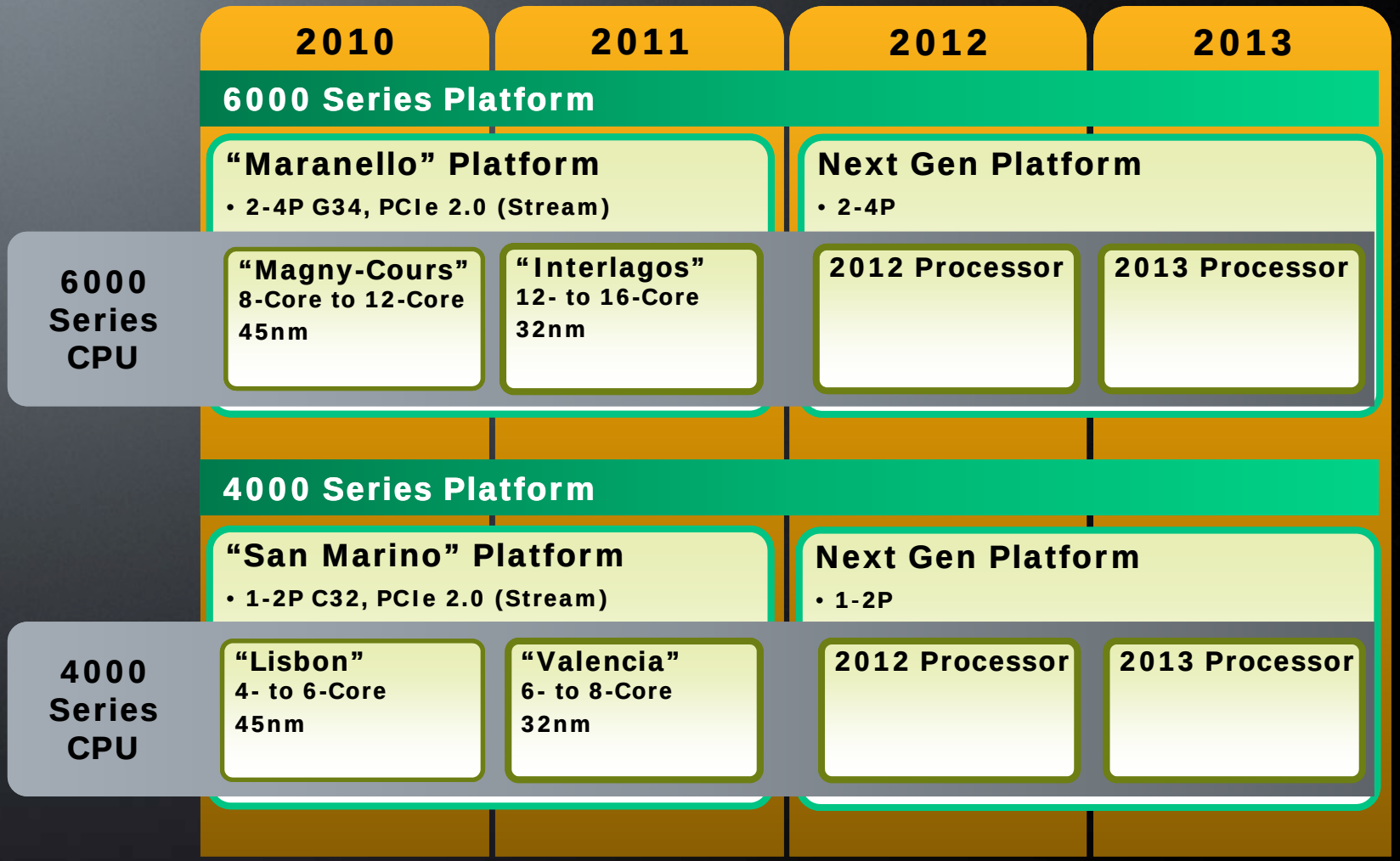


顧客にとっての価値の変化が市場構造を変革



AMD is changing server platform economics

マルチイヤー・サーバープラットフォーム戦略



*Roadmap subject to change without notice

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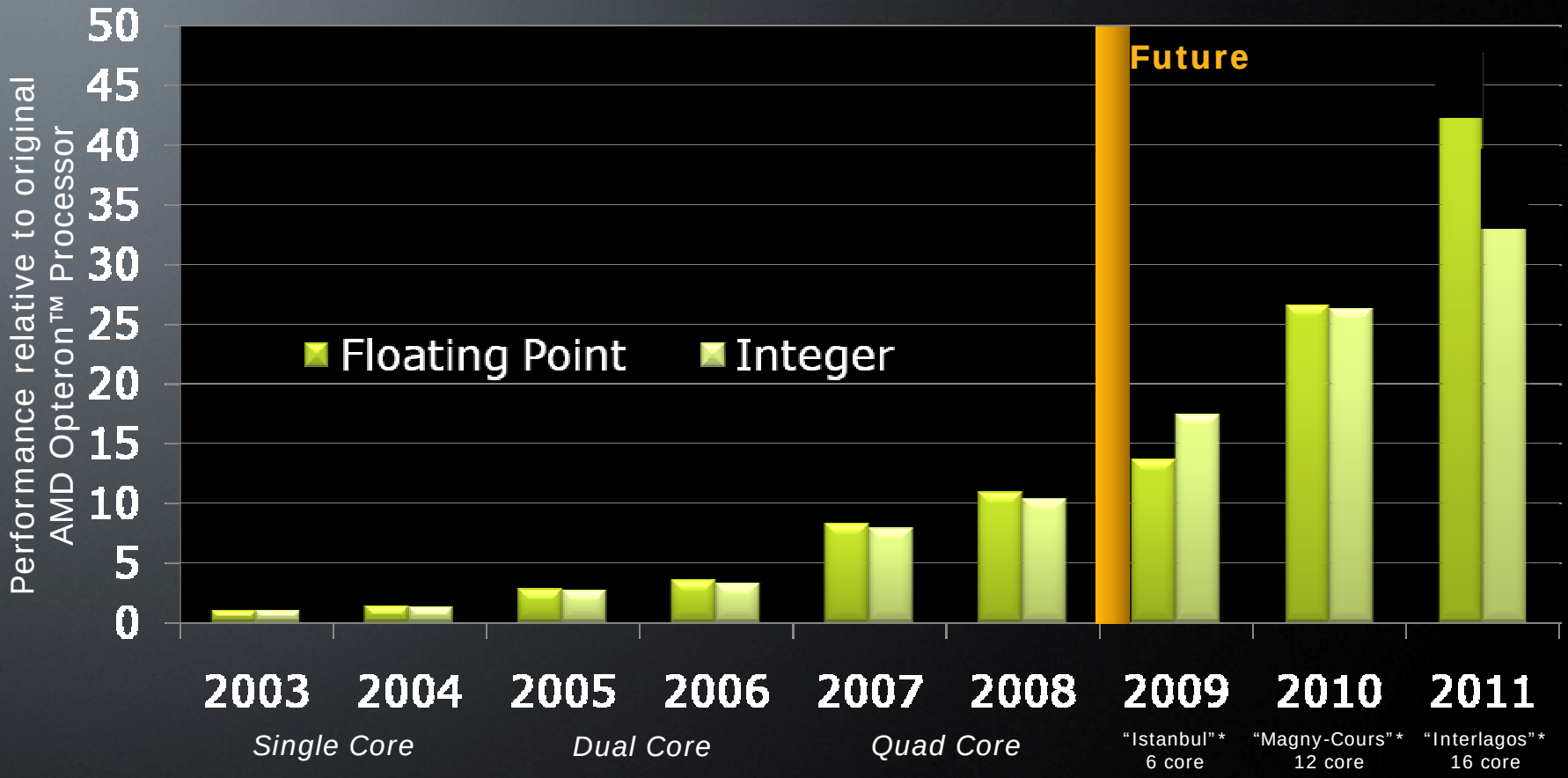
継続的かつ類を見ない性能の向上



"Bulldozer" goes to "11"

**"Istanbul", "Magny-Cours" and "Interlagos" data is based on AMD projections*

開発者のためにAMDが提供している情報

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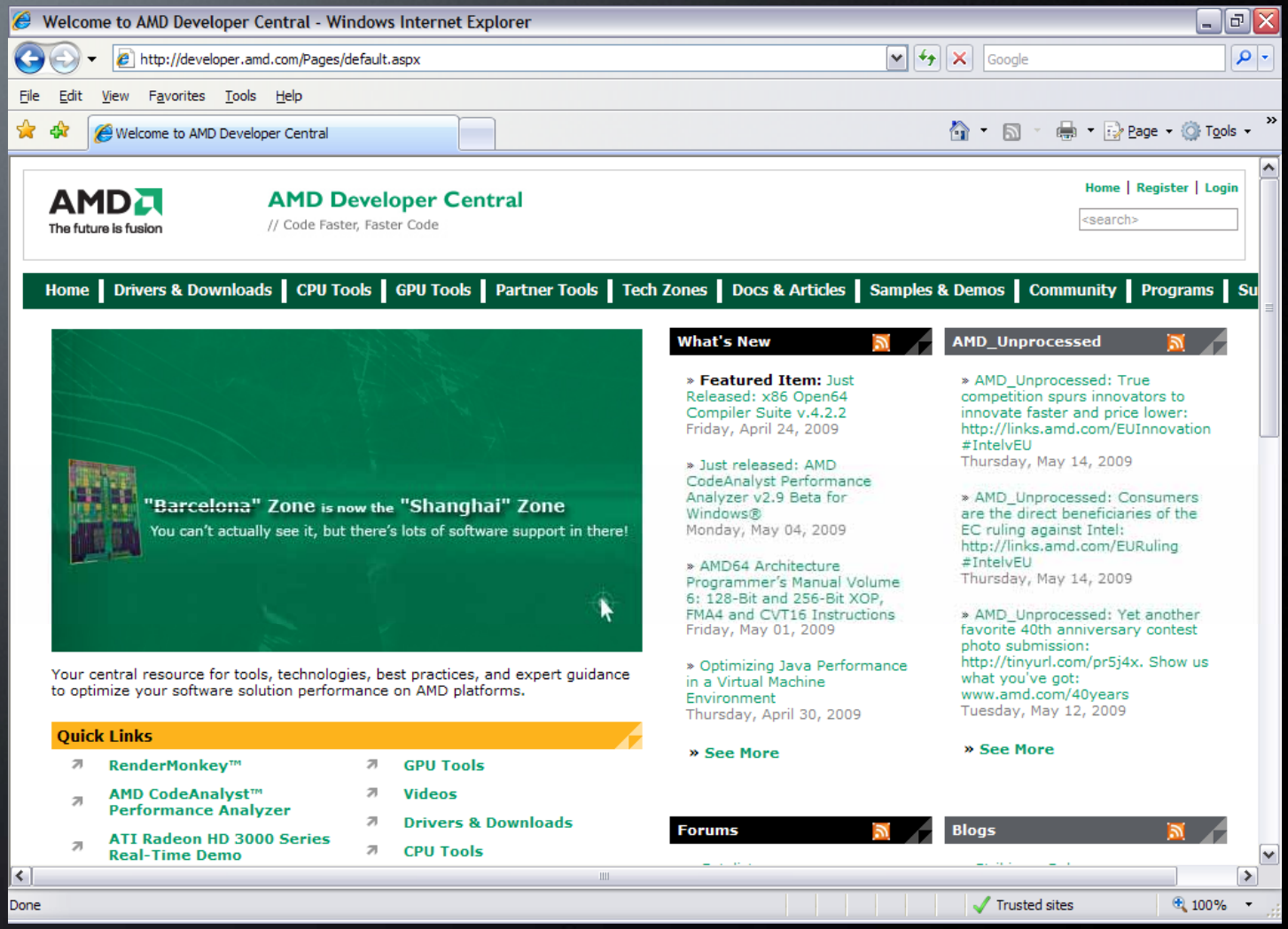
情報ソース：AMD Developer Central (http://developer.amd.com/)



主なコンテンツ

- AMD CPU・GPU関連の最新のニュース
- AMDおよびパートナー様が提供する最新の技術情報
- AMDが無料で提供するソフトウェア
  - ドライバー類
  - 開発者向けツール
  - ライブラリ
  - デモ　　etc
- Forum

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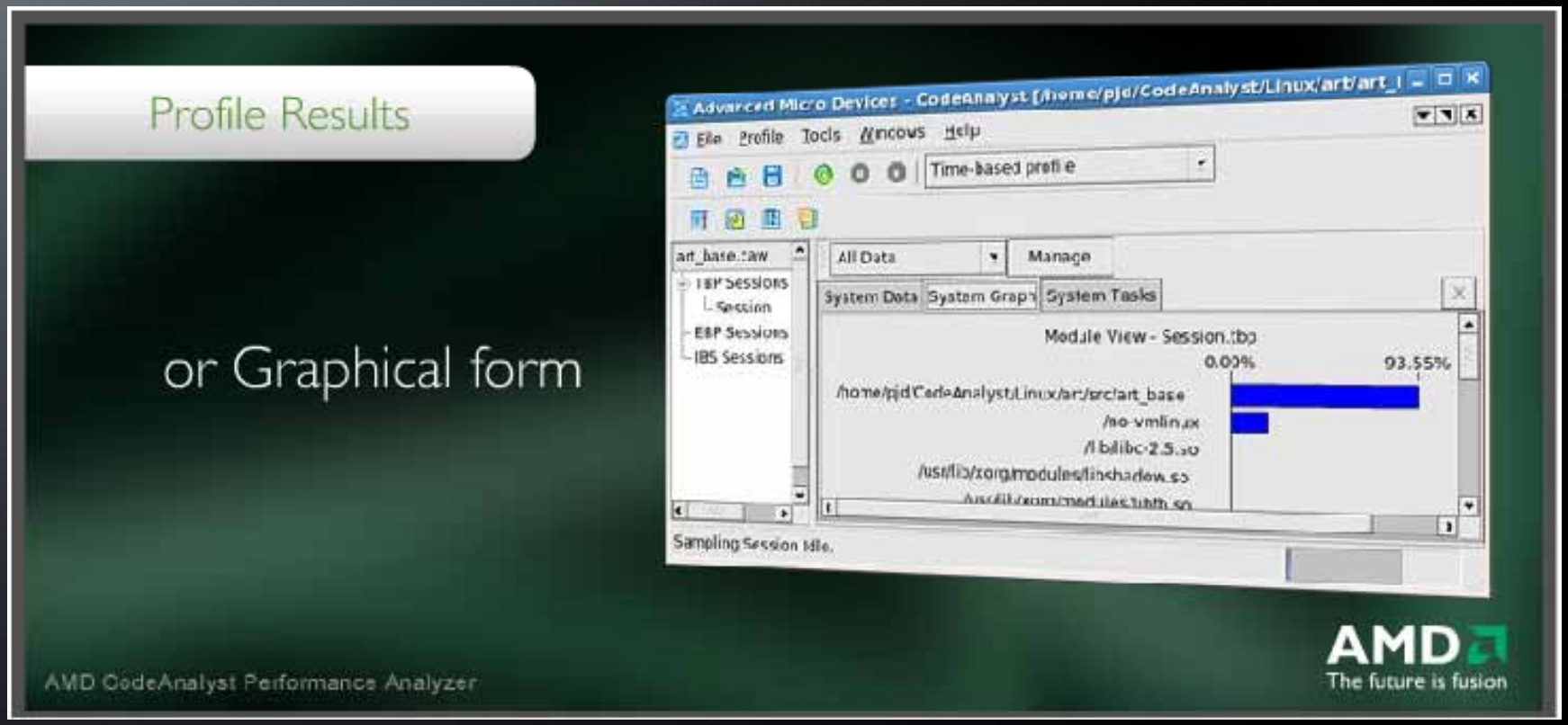
提供ツールの一例：
AMD CodeAnalyst™ Performance Analyzer

各種Linux、Windows共にサポート



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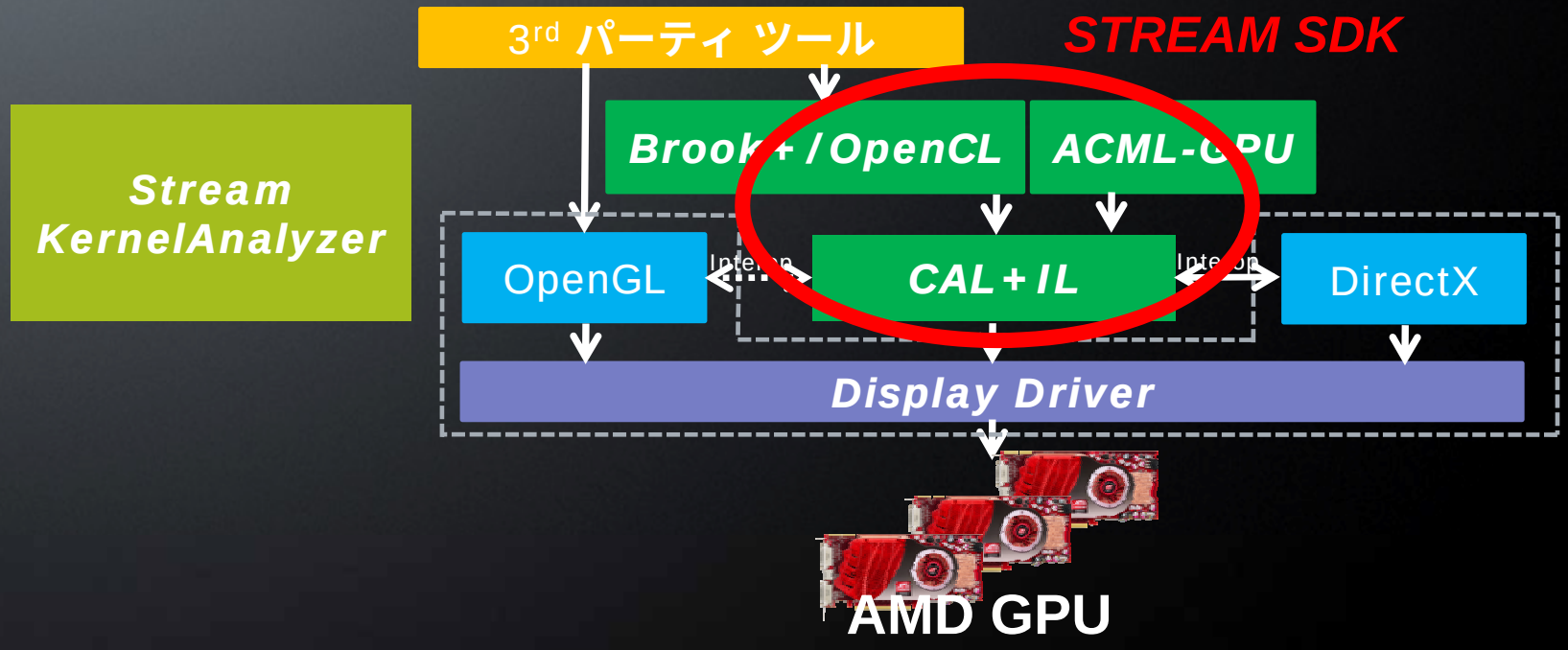
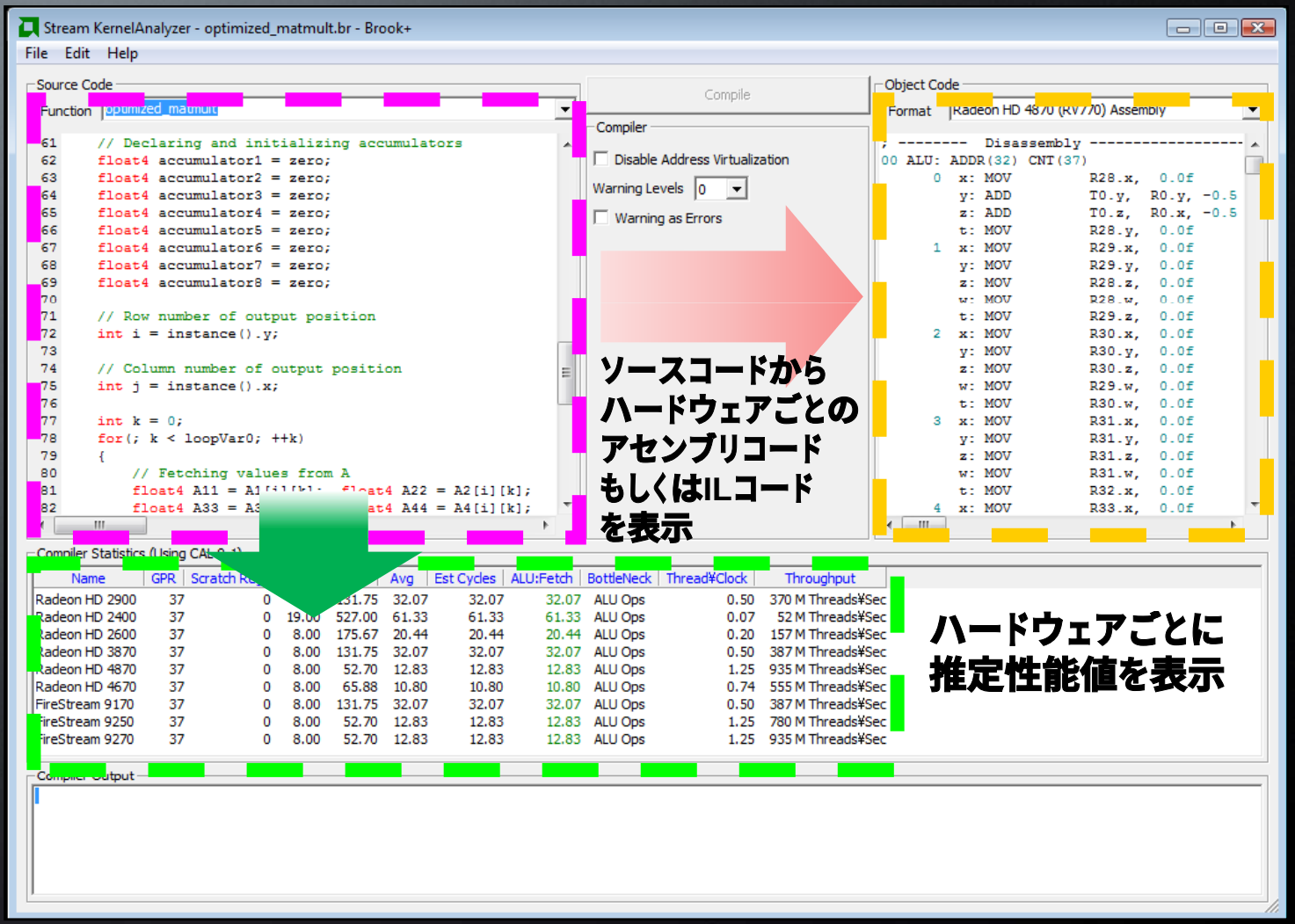
提供ツールの一例：
STREAM SDK

各種Linux、Windows共にサポート
（残念ながらStream KernelAnalyzerはWindowsのみ・・・・・）

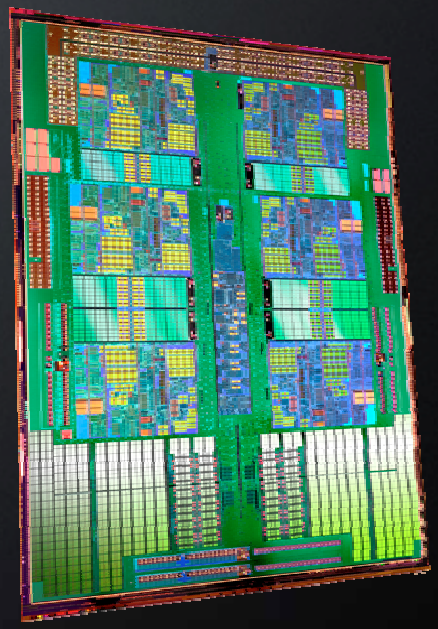


提供ツールの一例：
STREAM Kernel Analyzer



Thank You !!

Hiroyuki.Yamano@amd.com



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