

AMD fait la démo de 'Fusion' et détaille ses futurs 'APU'

A Sunyvale, ce 10 novembre, AMD a réuni journalistes et analystes pour présenter ses premières démonstrations des nouveaux 'CPU' intégrant sur le même 'chip' processeur graphique et processeur de calcul.

Pour rappel (cf. notre entretien avec Leslie Sobon: »[AMD optimise sa roadmap du mainstream](#)'), cette offre doit donner de nouveaux atouts à AMD, en améliorant encore les économies d'énergie sur les cartes mères de PC. Les performances des accès à Internet, de l'affichage vidéo, de la 3D, devraient nettement progresser.

Les Fusion APU d'AMD reposent sur la technologie DirectX 11 dans la famille des processeurs x86. c'est l'association sur un même 'chip' des processeurs graphiques Direct-11 et des microprocesseurs multi-coeurs de la nouvelle génération.

Les innovations dans l'interface utilisateur apportées, par exemple, avec la reconnaissance des gestes et de la voix tirent parti de ces technologies, dont celle au nom de code 'Llano', utilisant le traitement « massivement parallèle », permettant des centaines de 'gigaflops'.

AMD a également rappelé le lancement des futures générations:

- **'Krishna'** et **'Wichita'**, avec des 'APU' 2 à 4 coeurs 28 nanos reposant sur la nouvelle génération de CPU 'Bobcat' à base, là encore, de DirectX11, avec consommation inférieure à 1 watt, destiné aux PC tablettes, notebooks, HD netbook
- **'Trinity'**, futur chip APU en 32 nanos qui reposera sur le CPU 'Bulldozer' » et sur Direct 11, pour des postes de travail à hautes performances
- **'Komodo'**: ce sera une CPU de 32 nanos concentrant jusqu'à 10 coeurs 'Bulldozer' pour les applications graphiques, 3D haut de gamme
- **'Terramar'** et **'Sepang'** : ces deux CPU de 32 nanos desserviront le marché des serveurs, utilisant, là aussi, les coeurs 'Bulldozer'.

Visant le marché des entreprises, 'Terramar' pourra concentrer jusqu'à 20 coeurs, tandis que 'Sepang', accueillant jusqu'à 10 coeurs, servira le marché des systèmes économiques, sobres en consommation d'énergie.

LE DETAIL DES ANNONCES, avec calendrier:

APU

« An APU is an accelerated processing unit, a new generation of processors that combine either low-power or high-performance x86 CPU cores with the latest GPU technology (such as DirectX 11) on a single die.

introduction: 1er trimestre 2011

"Antilles"

marché cible: Discrete GPU

« AMD Radeon HD 6000 Series graphics card for ultra-enthusiasts ; two GPUs on one board» .

Introduction: 1er trimestre 2011

"Barts"

marché cible: Discrete GPU

« AMD Radeon HD 6800 series GPUs featuring AMD's second-generation Microsoft DirectX 11-capable architecture, best-in-class energy efficiency, and a feature set including AMD Eyefinity multi-display technology. »

Introduced: 2010

"Bobcat"

marché cible: multiple devices, including notebooks ultrathins, HD netbooks and small form factor desktops.

« A sub-one watt capable x86 CPU core that first comes to market in the **"Ontario"** and **"Zacate"** Accelerated Processing Units (APU) for mainstream, ultrathin, value, and netbook form factors as well as small form factor desktop solutions. "Bobcat" is designed to be an extremely small, highly flexible, out-of-order execution x86 core that easily can be scaled up and combined with other IP in SoC configurations ».

introduction: 1er trimestre 2011

"Brazos"

marché cible: Value Mainstream Notebooks, HD Netbooks and Small Form Factor

Desktops : "Brazos" is AMD's 2011 low-power platform, available with two APUs;

"Zacate" – currently planned to be marketed as the E Series – is an 18-watt TDP

APU for ultrathin, mainstream and value notebooks as well as desktops and all-in-ones.

"Ontario" – currently planned to be marketed as the C Series – is a 9-watt APU for netbooks and small form factor desktops and devices. Both "Brazos" platform APUs include a DirectX 11-capable GPU« .

introduction: 1er trimestre 2011

"Bulldozer"

marché cible: serveurs et clients

« A multi-threaded high-performance x86 CPU core contained in the "Zambezi" processor for client PCs and "Interlagos" and "Valencia" processors for servers. Included in the "Scorpius" enthusiast desktop PC platform and "Maranello," "Adelaide," and "San Marino" server platforms, "Bulldozer" is designed to be a completely new, high performance architecture that employs a new approach to multithreaded compute performance for achieving advanced efficiency and throughput. "Bulldozer" is designed to give AMD an exceptional CPU option for linking with GPUs in highly scalable, single-chip APU configurations. "Bulldozer" offers AMD another exceptional CPU option for combining with GPUs in highly scalable, single chip APU configurations, beginning in 2012 APU designs.

introduction: 1er semestre 2011 pour le 'client' et 2è semestre 2011 pour le 'server'

"Cayman"

marché cible: Discrete GPU

Second-generation DirectX 11-capable GPU to launch in the "Northern Islands" family, will be branded AMD Radeon™ HD 69XX graphics processors.

introduction: 4è trimestre 2010

"Champlain"

marché cible: Notebooks et Desktops

CPU for notebooks and desktops.

Introduit depuis 1er semestre 2010

"Danube"

marché cible: Notebooks

Mainstream notebook platform with DirectX® 10.1-capable IGP and DDR3 memory for high performance with optimum efficiency. Includes DirectX® 11-capable discrete graphics options. This platform will receive a refresh in the form of faster CPU speeds and updated capabilities for DirectX® 11 graphics during 1H 2011.

Introduit depuis mai 2010; nouvelle version 1er semestre 2011

"Interlagos"

marché cible: serveurs

« 8, 12- or 16-core 32nm server processor for 2P and 4P markets, based on the new "Bulldozer" processor core. Will carry the AMD Opteron™ 6200 Series processor brand and be supported by the AMD Opteron™ 6000 Series ("Maranello") platform for socket G34.

Introduction: 2è semestre 2012

"Komodo"

marché cible: serveurs et Performance Desktops.

« next generation CPU ; primarily intended for servers and high-performance desktops. "Komodo" will feature next-generation "Bulldozer" CPU cores and, in desktop PC platforms, is designed to couple with DirectX 11 GPUs to provide enthusiast-level system performance ».

introduction: 2012

"Krishna"

marché cible: Notebooks, HD netbooks, tablettes et desktops

« Tablet, ultrathin, HD netbook and small form factor desktop APU based on next-generation "Bobcat" core architecture and supporting DirectX 11 and DDR3 technology.

introduction: 2012

"Llano"

marché cible: Notebooks et Desktops

Part of the "Sabine" platform, "Llano" is a 32nm APU including up to four x86 cores and a DirectX® 11-capable GPU, primarily intended for performance and mainstream notebooks and mainstream desktops. "Llano" is engineered to deliver impressive visual computing experiences, outstanding performance with low power and long battery life.

introduction: mi-2011

"Northern Islands"

marché cible: Discrete GPU

« AMD graphics cards branded as the AMD Radeon™ HD 6000 family. Based on 40nm process technology, feature AMD's second generation of DirectX 11-capable GPU technology, AMD Eyefinity technology and tremendous power efficiency ».

Introduction: 4è trimestre 2010

"Ontario"

marché cible: Primarily ultrathin notebooks et HD netbooks

« 9 watt APU featuring dual or single "Bobcat" x86 cores currently planned to be marketed as the C Series, and primarily intended to serve the low power and highly portable PC markets for netbooks and small form factor desktops and devices. »

introduction: 1er trimestre 2011

"Sepang"

marché cible: serveurs

« Server CPU with up to 10 next-generation "Bulldozer" CPU cores targeting 2-way highly energy efficient and cost optimized Socket C2012 platforms. Complete with three-channel DDR3 memory and integrated PCIe Gen3 I/O.

introduction: 2012

"Terramar"

marché cible: serveurs

« Server CPU with up to 20 next-generation "Bulldozer" CPU cores targeting the 2- and 4-way performance-per-watt and expandable Socket G2012 platforms. Complete with quad-channel DDR3 memory and integrated PCIe Gen3 I/O.

introduction: 2012

"Trinity"

marché cible: Notebooks et Desktops

AMD's next generation APU and is primarily intended for mainstream and high-performance desktops and notebooks. "It will feature next-generation "Bulldozer" CPU cores and a DirectX® 11-capable GPU. »

introduction: 2012

"Valencia"

marché cible: serveurs

« Six- or eight-core 32nm processor for 1P and 2P markets, based on the new "Bulldozer" processor core. Will be branded as the AMD Opteron™ 4200 Series processor and will be supported by the AMD Opteron™ 4000 Series platform ("San Marino") or the ultra low-power "Adelaide" platform for socket C32.

Introduction: 2è semestre 2011

"Vancouver"

marché cible: Notebooks

« Next generation discrete GPU option for mainstream and highperformance notebook segments.

Introduction: 1ère moitié 2011

"Wichita"

marché cible: Value Mainstream Notebooks, Ultrathins and HD Netbooks

« APU for low-power form factors.

introduction: 2012

"Zacate"

marché cible: Notebooks et Desktops

18Watt APU designed for the mainstream notebook and desktop market. Zacate will feature low-power "Bobcat" CPU cores and support DirectX 11 technology ».

introduction: 1er trimestre 2011

"Zambezi"

marché cible: desktops

« four-, six-, or eight-core 32-nm AM3 socket desktop processor based on the "Bulldozer" processor architecture for the enthusiast market ».

Introduction: 1ère moitié 2011