ΗΥ425 - Αρχιτεκτονική Υπολογιστών

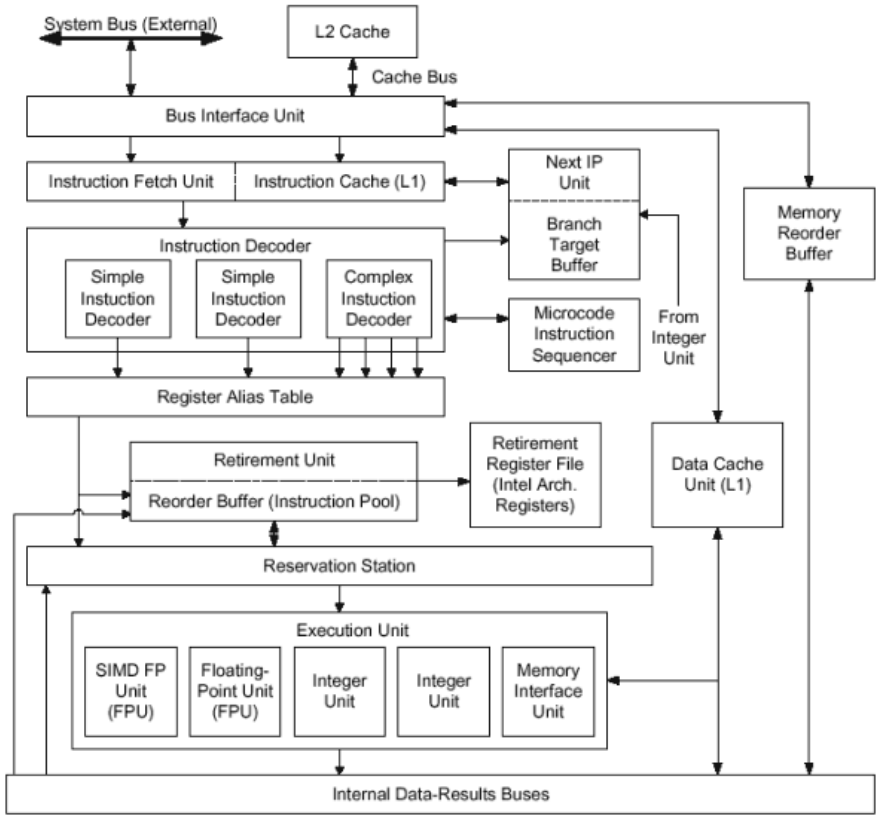
Χ. Σωτηρίου

21 Οκτωβρίου 2001

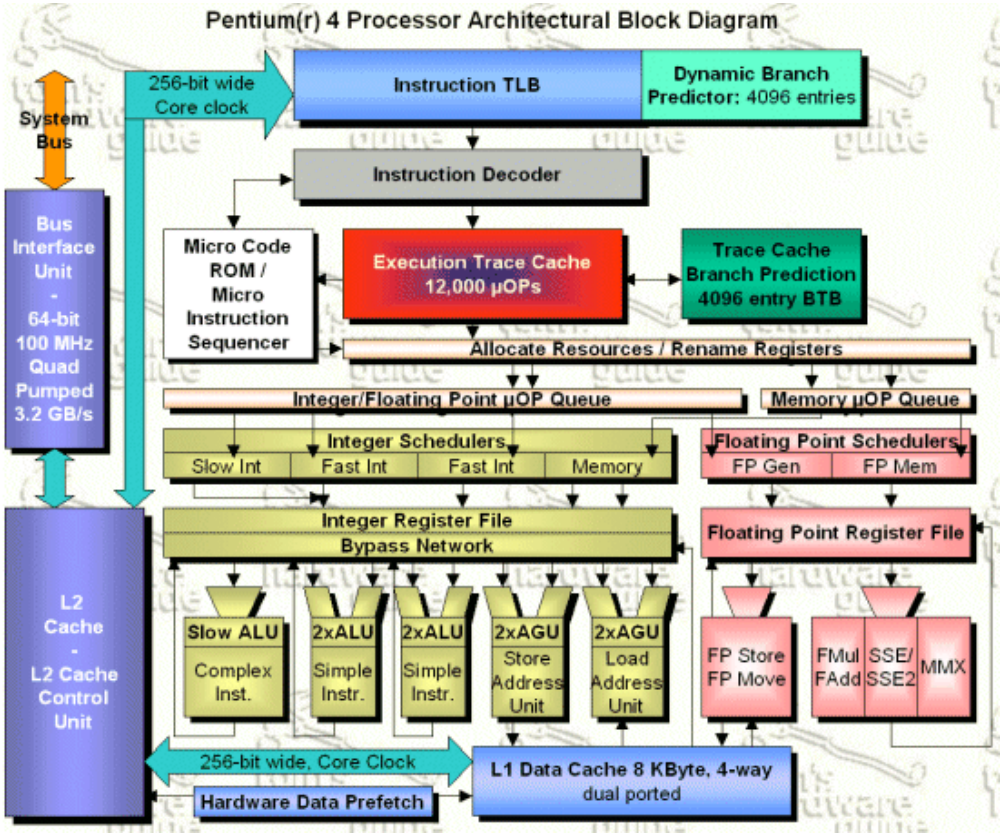
Ιστορία της Αρχιτεκτονικής $80x86$

Επεξεργαστής	Ημ. Έκδ.	Συχν.	Αρ. Τρανζ.	Κατ.	Bus Δεδ.	Διευθύνσεις	$Cache$
8086	1978	$8MHz$	29K	16-bit GP	16	$1MByte$	-
80286	1982	$12{,}5MHz$	134K	16-bit GP	16	$16MBytes$	-
$80386DX$	1985	$20MHz$	275K	32-bit GP	32	$4GBytes$	-
$80486DX$	1989	$25MHz$	1,2M	32-bit GP, 80-bit FP	32	$4GBytes$	$8KBytes$ $L1$
$Pentium$	1993	$60MHz$	3,1M	32-bit GP, 80-bit FP	64	$4GBytes$	$16KBytes$ $L1$
$PentiumPro$	1995	$150MHz$	5,5M	32-bit GP, 80-bit FP	64	$64GBytes$	$16KBytes$ $L1$ 256, 516, 1M $L2$
$PentiumII$	1997	$266MHz$	7M	32-bit GP, 80-bit FP, 64-bit MMX	64	$64GBytes$	$32KBytes$ $L1$ 256, 516 $L2$
$PentiumIII$	1999	$500MHz$	8,2M	32-bit GP, 80-bit FP, 64-bit MMX, 128-bit XMM,	64	$64GBytes$	$32KBytes$ $L1$ 256, 516 $L2$

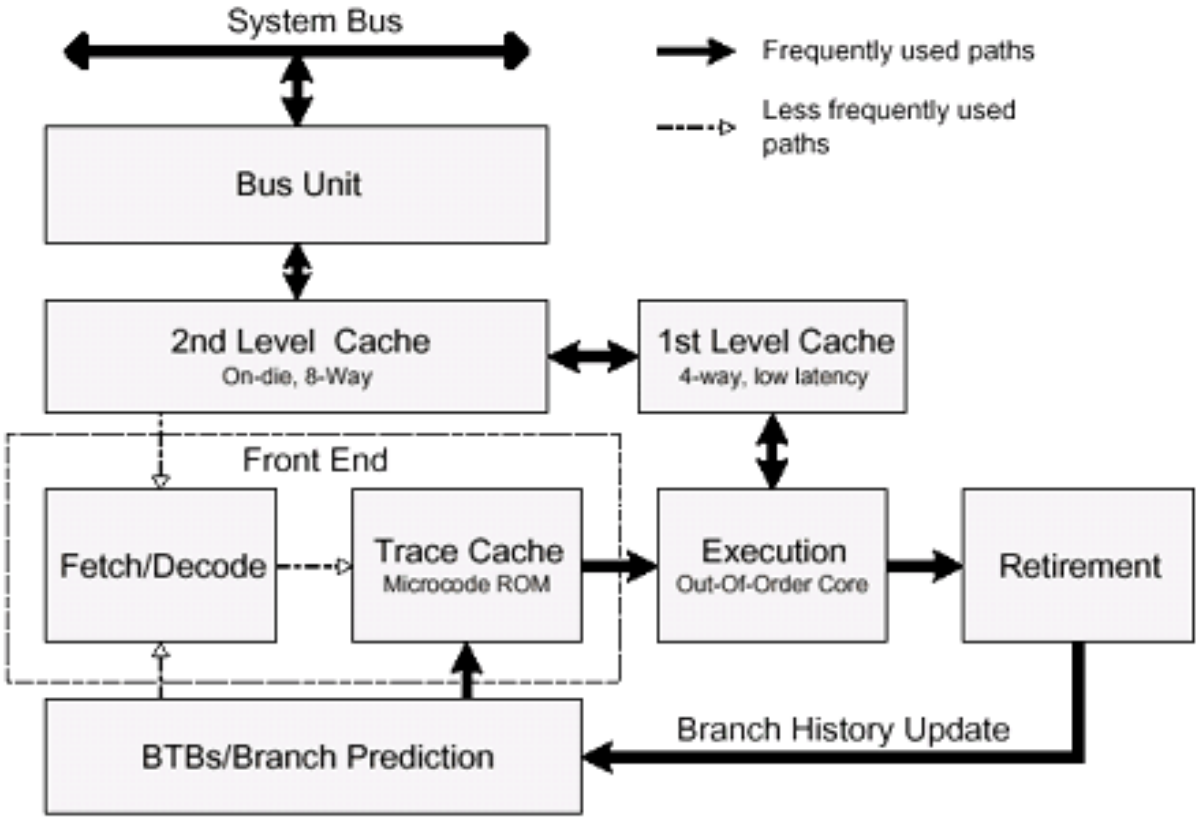
Αρχιτεκτονική $P6$ - $PentiumIII$



Αρχιτεκτονική *Pentium4*

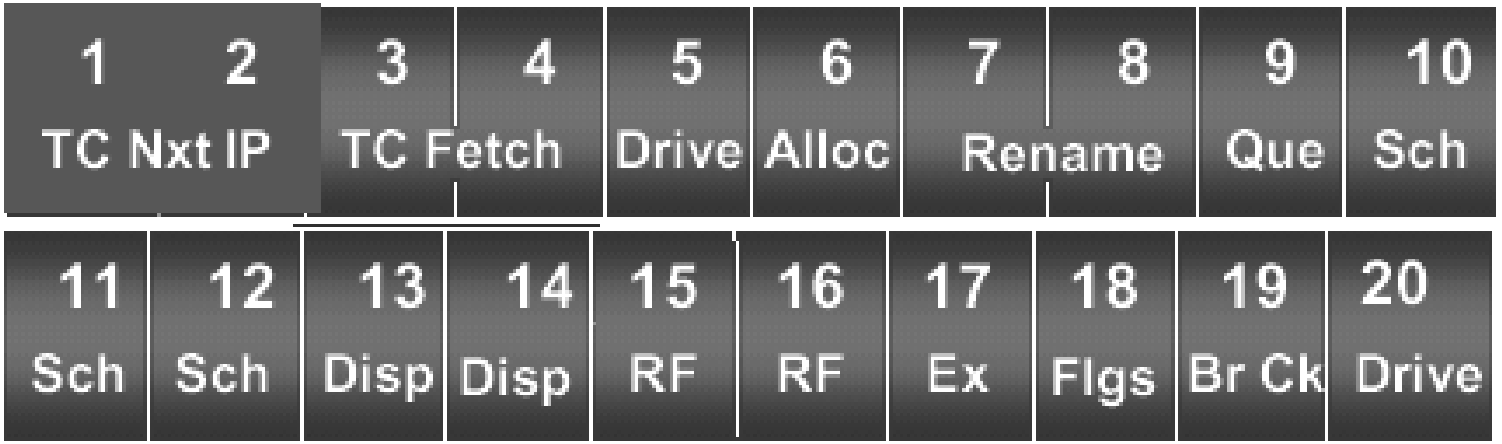


Αρχιτεκτονική $Pentium4$

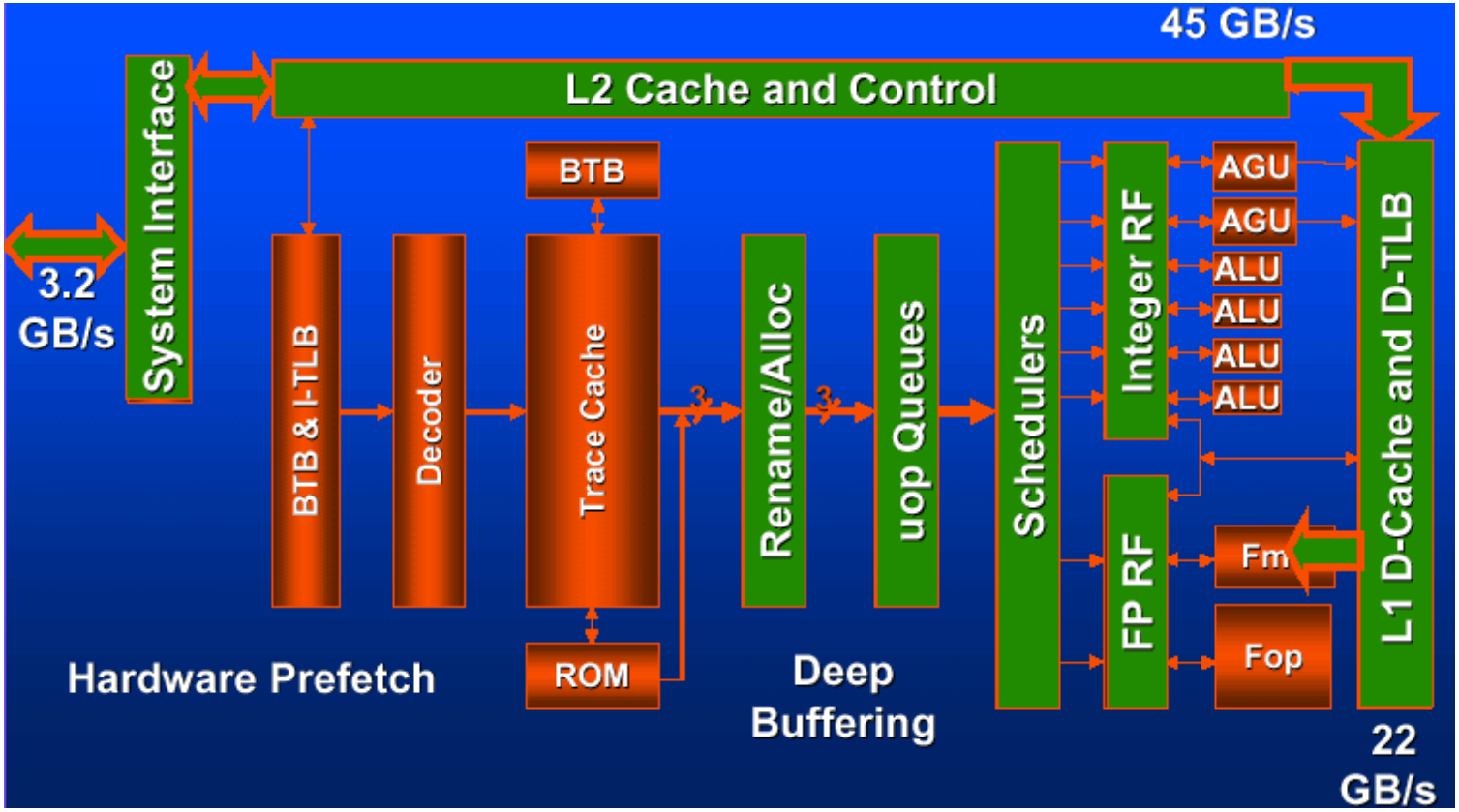


Κλιμάκωση $Pentium4$ - 20 Στάδια

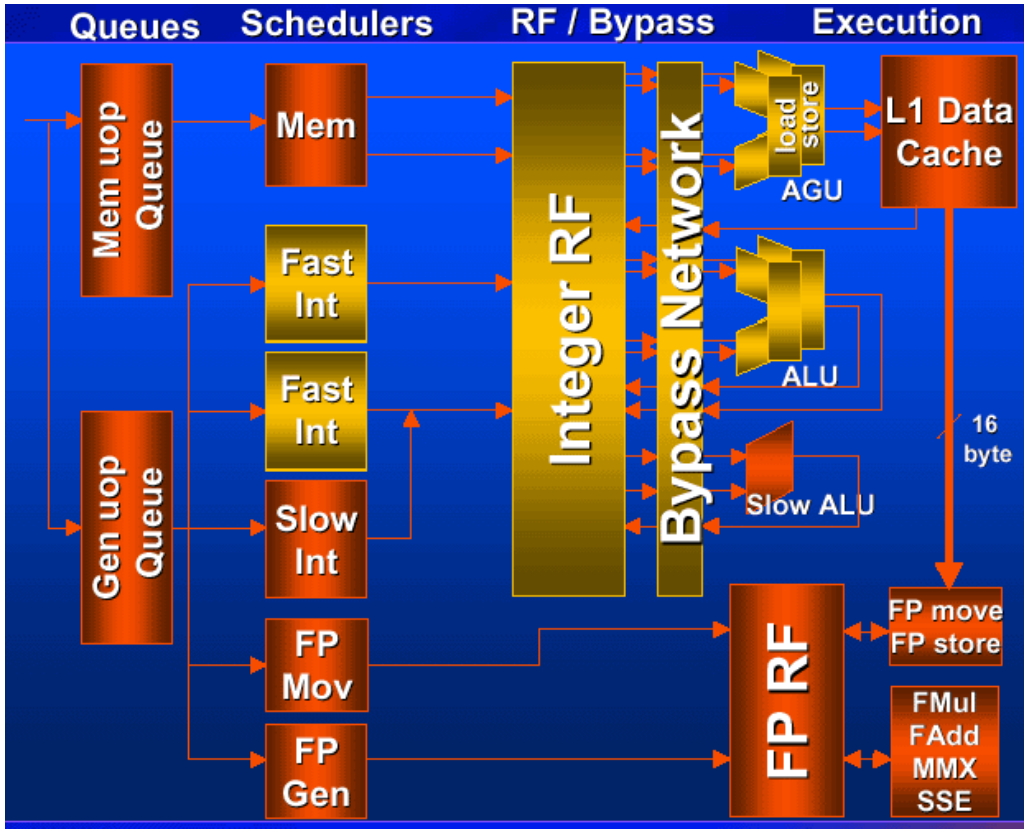
Netburst?



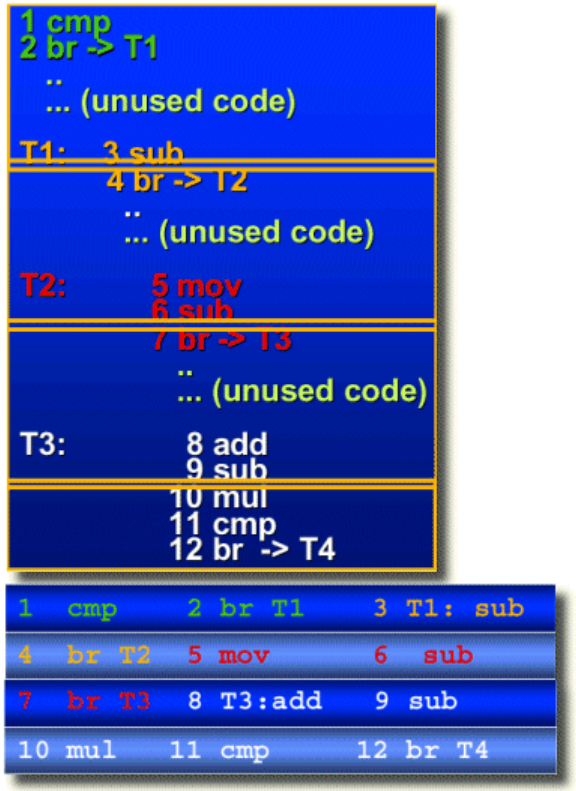
Κλιμάκωση $Pentium4$



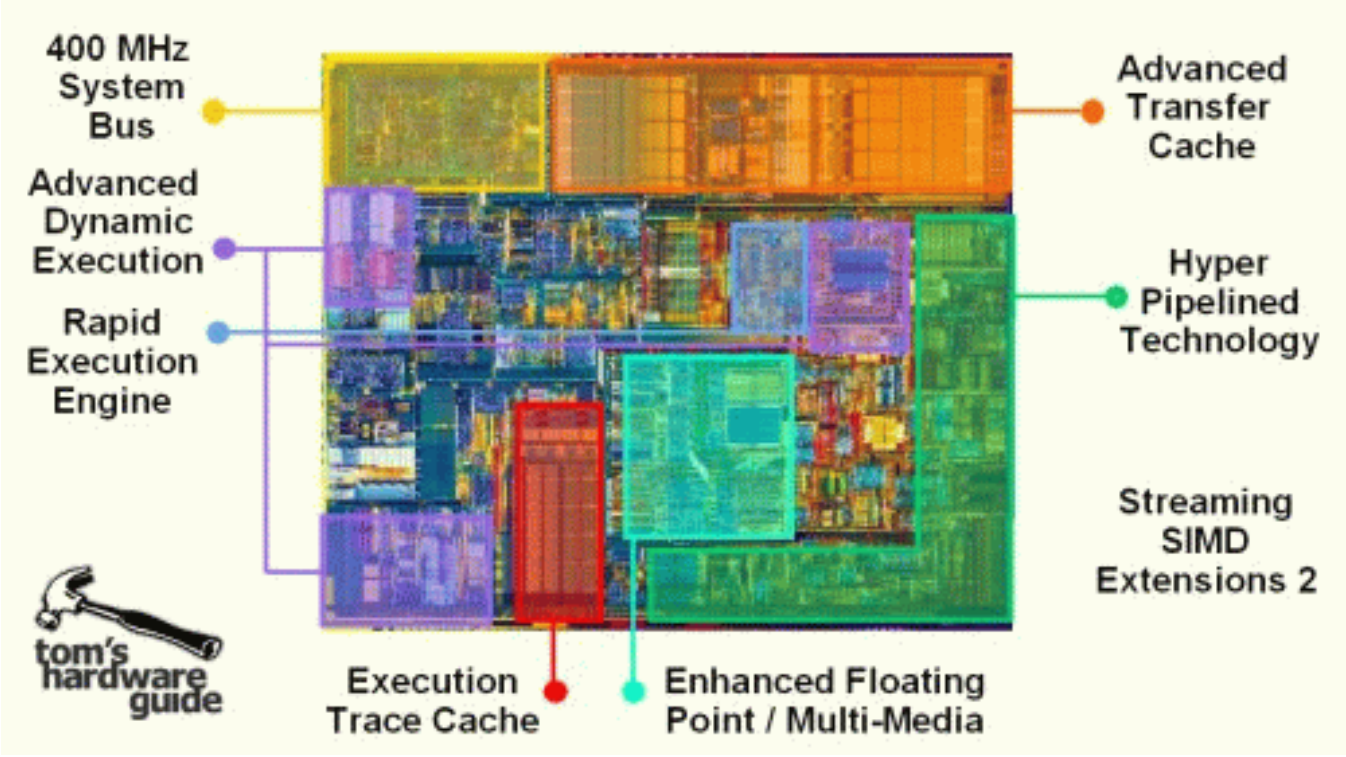
Κλιμάκωση *Pentium4 - REE*



Pentium4 - Trace Cache



Pentium4


400 MHz System Bus
Advanced Dynamic Execution
Rapid Execution Engine
Advanced Transfer Cache
Hyper Pipelined Technology
Streaming SIMD Extensions 2
Execution Trace Cache
Enhanced Floating Point / Multi-Media
tom's hardware guide