



SATURN

ATKINS



# 2009 SATURN User Group - Epsom

SATURN Multi-Core

Thursday 5<sup>th</sup> November 2009

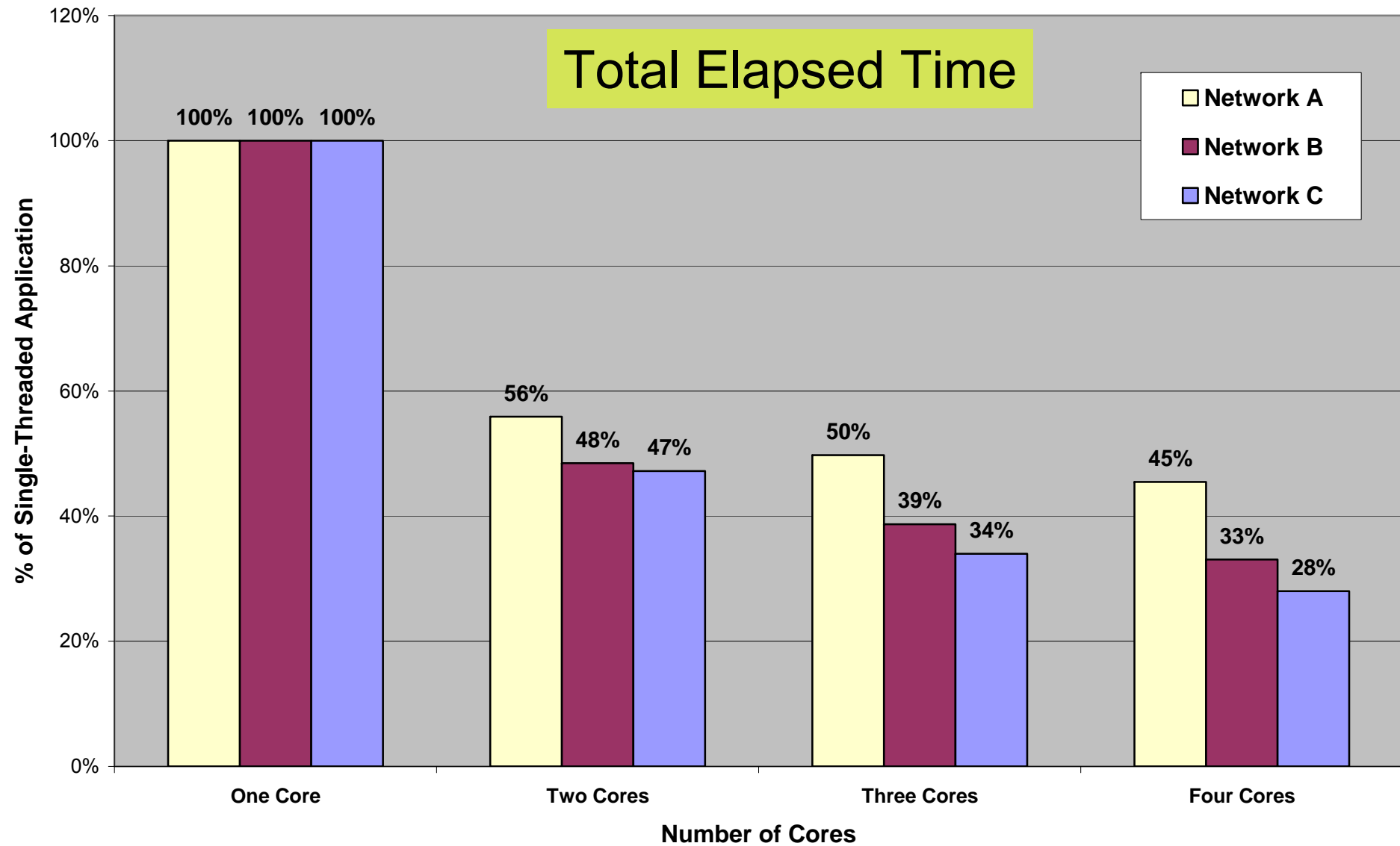
# SATURN Multi-Core

## Harvesting the Power of your Desktop PC

- Multi-threaded version of SATURN
- Scalable architecture
  - Uses **all** available processors (or cores) available
- Works on all Intel / AMD-powered standard desktop PCs
- Fully compatible with single-core SATALL
  - Benchmarked on desktop PCs with between one & eight cores
- Current Implementation:
  - Within SATALL Path-building and Loading only
  - Accounts for circa 90% of CPU expenditure
  - Will be extended for secondary analysis
- To activate: set MULTIC = T.
  - Windows OS handles the rest
- Available as low-cost add-on to SATURN



# SATURN-MC: Performance



# SATURN-MC: Next Steps

- Released as add-on to v10.8.22.
  - Beta evaluation period ended
  - Testing has shown limited gains beyond five cores (save your money!)
- Certain processes cannot be easily parallelised  
eg SATSIM
- Extend to secondary analysis:
  - Skimming using SATLOOK
  - Path analysis with SATPIJA
  - Cordoning via SATCH
  - Select Link Analysis with P1X (?)
- Extended functionality available to SATURN-MC maintained users via updates
- Will be subsequently merged into core product

# SATURN-MC: Licence & Pricing

- Identical licencing structure as main SATURN licence
  - Multi-user, multi-site
  - Campus-based maintenance
- Pricing:

Version	Purchase	Single-Campus Annual Maintenance Charge*
B	£1,000	£150.00
C	£1,250	£187.50
S	£1,500	£225.00
H	£1,750	£262.50
K	£2,000	£300.00
L	£2,250	£337.50
M1	£2,500	£375.00
M2	£2,750	£412.50
M3	£3,000	£450.00
N1	£3,250	£487.50
N2	£3,500	£525.00
N3	£3,750	£562.50
N4	£4,000	£600.00



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