

Welcome to the



W T Hewitt University of Manchester

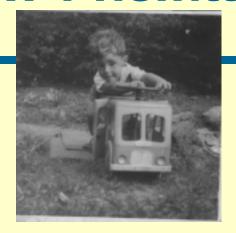




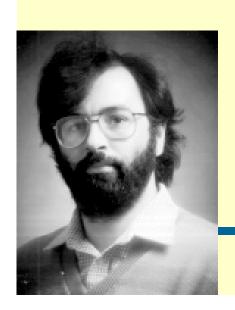
- Who am I?
- University of Manchester
 - Manchester Computing
- Manchester
- Why CUG chose Manchester
- English 101



W T Hewitt











The University of Manchester



- One of the oldest in the UK
 - Established 1851
- One of the largest in the UK
 - Student numbers
 - Research Income
- One of the best in the UK
 - Research quality
 - Graduates getting jobs
 - Teaching

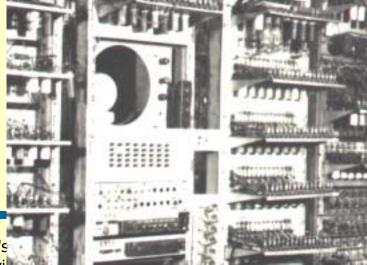


Computing at Manchester



- Fundamental Computer Science.
 World firsts:
 - Stored program 1948
 - Commercial computer
 - Index registers
 - Virtual Memory
 - Dataflow machine
- Applications of computing, e.g.,
 - Molecular modelling, chemistry, engineering,...
 - Medicine, social anthropology, ageing process
- Computer Services
 - Manchester Computing





Manchester Computing serves



University of Manchester

- Administrative computing, academic computing, telecoms
- UK Academia
 - Supercomputing (CSAR)
 - Information & data services (MIMAS)
 - Major node in UK Academic Network
 - Managing agent for Net NorthWest
 - Used by HE, FE & RCs

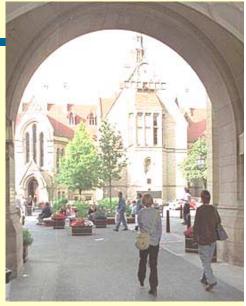
- International
 - MIMAS
 - International AVS Centre
- Government, Commerce & Industry
 - Supercomputing
 - Networks and hosting
 - IFI
 - R&D

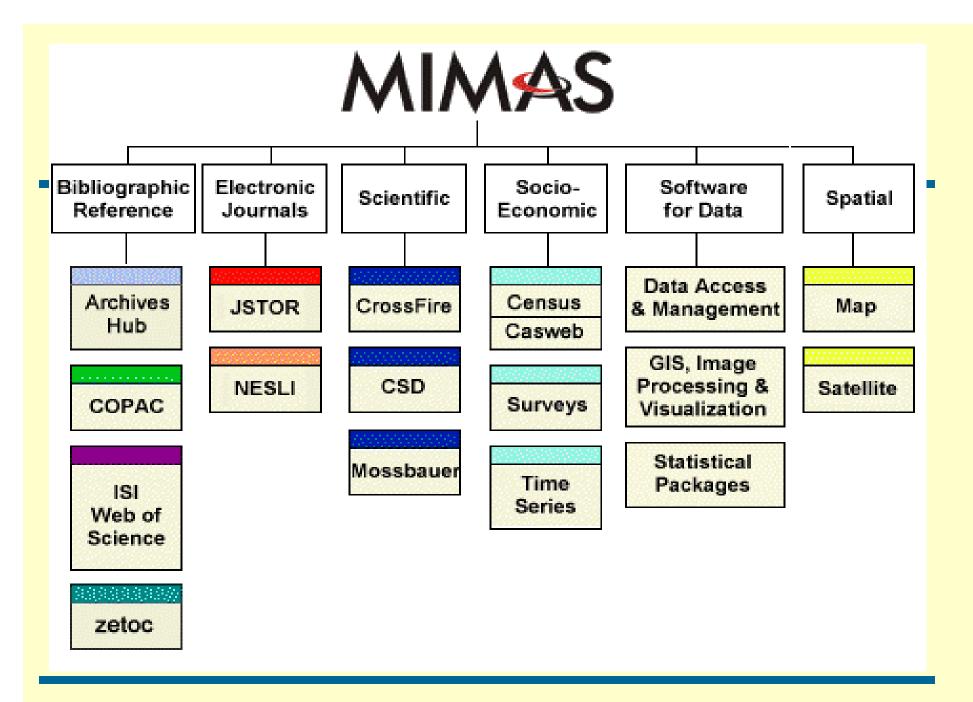


MC Services



- 10,000 computers on local area network
- 25,000 University of Manchester users
- Services used by ~ 200 HE Institution
 & >100 FE institutions, soon to be all for the NLN
- Internationally Beilstein CrossFire, COPAC, Psigate





Supercomputing





- National HPC services continuously since 1972
- Flagship HPC Service for UK Academia & Commerce
 - University of Manchester
 - Computer Sciences Corporation
 - SGI
- Pay per use system







Supercomputers



MIMAS

Sun E6500 24 PE (MIMAS), E4500, E4000 (JSTOR)

• CSAR

- Cray T3E-1200E 816 PEs Origin3000 512 PEs

Origin2000 128 PEs

- Fujitsu VPP300 8 PEs Origin300 16 PEs

SGI Intel IA-64 32 PEs
 Compaq 16 PEs

Manchester

- IBM RS6000/SP 146 PEs
- Beowolf cluster 204 Pentiums
- Origin3000 16 PEs
- Origin2000 : 44 PEs 8 PEs 16 PEs 40 PEs



A Brief History of Supercomputing @ Manchester

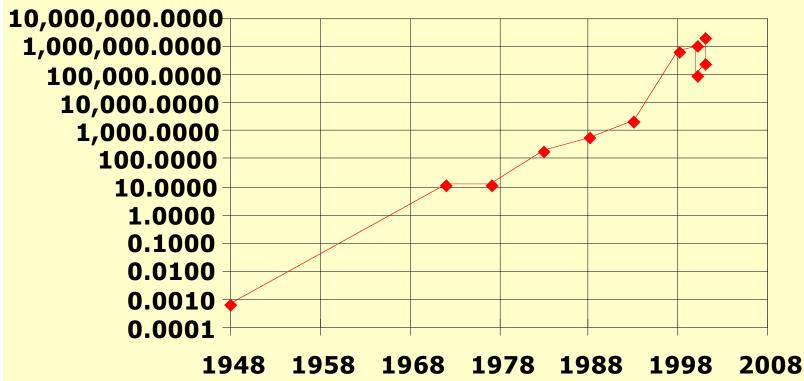


| Year | MFlops | Machine | |
|------|--------|------------------------|--|
| 1948 | 0.0007 | Williams-Kilburn Baby | |
| 1972 | 12 | CDC7600/ICL1906A | |
| 1977 | 12 | CDC7600/ICL1904S | |
| 1983 | 192 | CDC Cyber 205 | |
| 1988 | 576 | VP1200 | |
| 1993 | 2,200 | VPX 240/10 | |
| 1998 | 0.7M | Cray 576 PE | |
| 2000 | 1M | Upgrade to 816 PE | |
| 2000 | 0.1M | 128 PE SGI Origin 2000 | |
| 2001 | ~0.5M | 512 PE SGI Origin3000 | |

Others Sun Cray CS6400 Meiko (80PE) KSR **IBM SP (146PE)** Cray EL98 Compaq **Amdahl Fujitsu Digital**

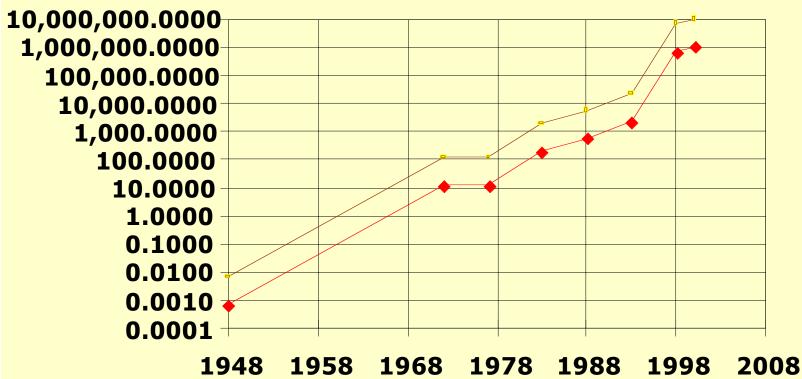
MFlops at Manchester





If only





Manchester Visualization Centre



- Visualization Immersive Projection Laboratory
 - Immersive Projection Theatre
 - Panoram GVR 120
 - Cylindrical Screen
 - Three Electrahome Projectors
 - Active Stereo
 - 40 processor Origin 2000
 - 6 graphics pipes





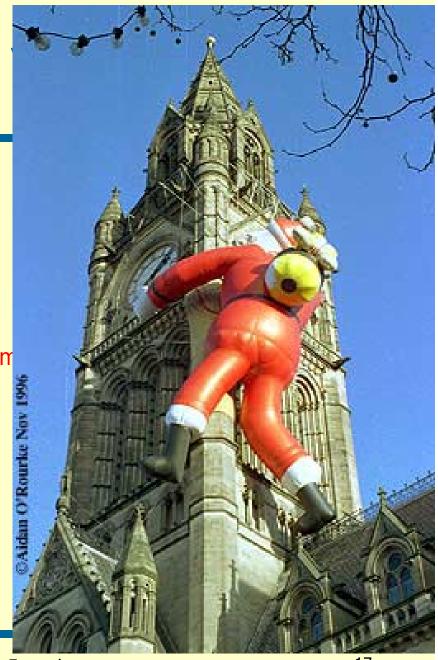




Conference



- Manchester Town Hall, City Centre
 - Grade II listed building
 - Built 1840
 - Famous Great Hall and State Room



About the City of Manchester



- 12th largest European region
- European headquarters of many multi-nationals
 - 1,057 overseas firms have Manchester as their UK HQ
- 4 Universities
 - + Music and Business Schools
 - + 52 tertiary educational establishments
 - Making it the largest student population in Europe
- World-wide reputation for research and development

Ground Transportation



- Manchester has extensive public transport including:
 - Trains: local and inter-city
 - Buses (with a web-based timetable)
 - The famous 'Metrolink' LRT
 - Taxis
 - Hire cars

Manchester's History

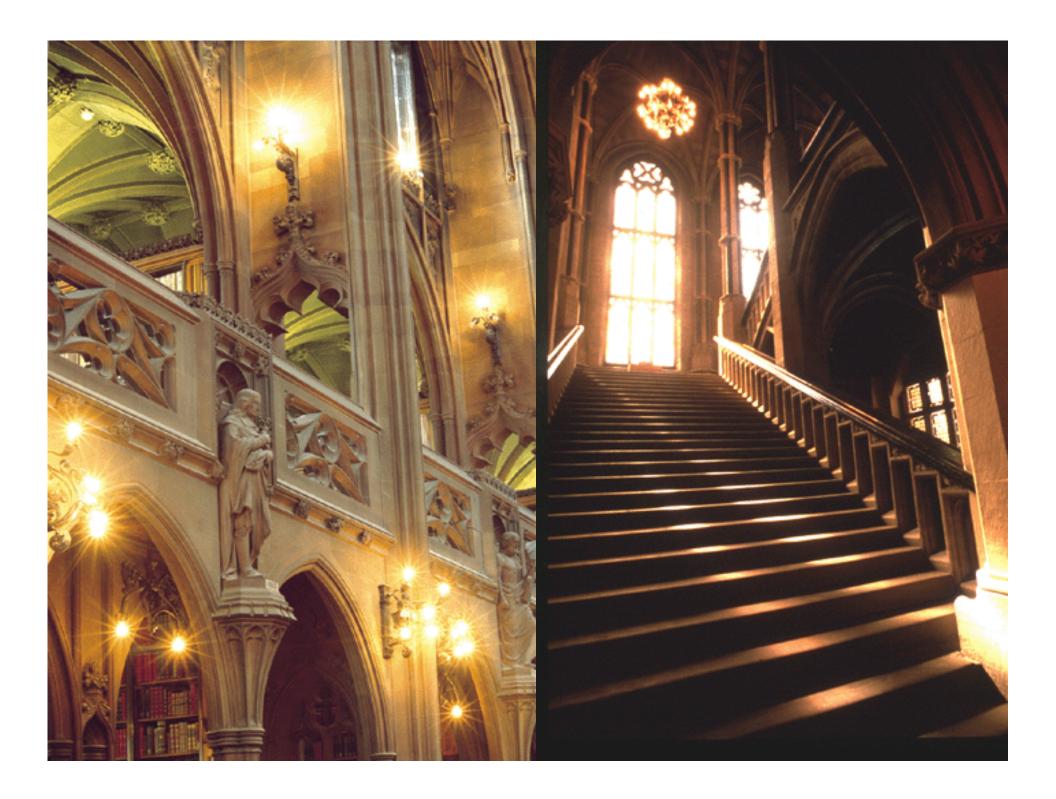


- Called 'Mancunium' by the Romans
 - Roman remains in several locations
- Market town in the Middle ages
- Grew to be a large city during the Industrial Revolution
- Manchester was the world centre for Cotton Spinning and trade in Cotton.
- It was once one of Britain's largest ports, even though its in 40 miles from the sea!

Outside Manchester



- Chester (1 hr)
 - It is still circled by its Roman Walls.
- The Lake District (1.5hrs)
 - Home to England's highest mountains and largest lakes
- Liverpool (40 mins)
 - Birthplace of the Beatles.
- Scotland (2-3 hrs)
 - Should be still snow on the hills in May
- Wales (1-2 hours)
- London (3.5 hours)
 - But who would want to go there ?!

















Invitation to CUG 2002

Manchester Computing Europe's premier university computer service





Why Was Manchester Chosen?



- Funny accents
- Funny money
- Can't spell properly
- Play football
- Play cricket
- Drive on the wrong side of the road
- Only 5 TV channels
- Rains a lot
- Eat strange things: black pudding, tripe



Summary: Why Manchester?



- Europe's premier university computer service
- Important site in the history of computing
 - See the 'Baby' in the Museum of Science and Industry
- Large vibrant city (best nightlife in the UK)
 - Theatres / Cinemas including IMAX, Lowry, Bridgewater
- May is a wonderful month in the area:
 - long days, wild flowers, particularly in Peak District,
- Free Beer
- Lots of good Curry!

Conference Highlights



- Monday: SGI reception Whitworth Art Gallery
- Wednesday:
 - Lord Mayor
 - Dr J Taylor, Director General of the Research Councils
 - CUG Night out at Tatton Park
- Thursday: Cray Reception Science Museum, Castlefield



- 'Email' Room is Tower Room
- Wireless LAN
- 4 corporate sessions, 16 parallel technical sessions
- 3 tutorials, 57 somethings, 5 somethings, 3 key note speakers, 12 something else





USA UK word to use

Soccer Football

Football American Football

French fries Chips

Potato chips Crisps Fried potatoes

Chips Crisps Fried potatoes

Private school Public school

Area code Dialling code

Mall Shopping centre



USA UK word to use What you might get

Fag Cigarette Homosexual

Eraser Rubber

Color Colour

Elevator Lift

Sidewalk Pavement

Trunk (of car) Boot Big empty suitcase

Fanny Arse Slap in the face

Butt Bottom Barrel of water

Bathroom Toilet Somewhere to wash your hands



USA UK word to use What you might get

Restroom Toilet Somewhere to sleep

ATM Cash point, hole in the wall

Beer Lager Bitter

England United Kingdom Hit

Entrée Main course Starter

First floor Ground floor Lost

Suspenders Braces Worn by Ladies

between knees

and waist

Manchester Computing University of Manchester Manchester M13 9PL

Computer Services for Academic Research



Fax: 0161 275 6040 Web: www.csar.cfs.ac.uk Email: csar-advice@cfs.ac.uk

Telephone: 0161 275 5997



CUG SUMMIT 2002 Quiz Answers

| 1 | YMP8e | 25 | J90 or SV1 Memory Board |
|----|---------------|----|-------------------------|
| 2 | Amdahl 5890 | 26 | Lots |
| 3 | T3D | 27 | Football |
| 4 | T3E | 28 | Chips |
| 5 | J90 | 29 | Crisps |
| 6 | CS6400 | 30 | Crisps |
| 7 | Amdahl VP1200 | 31 | Public School |
| 8 | CS6400 (Rear) | 32 | Dialling Code |
| 9 | VPX240/10 | 33 | Shopping Centre |
| 10 | CDC 7600 | 34 | Cigarette |
| 11 | SV1 | 35 | Rubber |
| 12 | Tom King | 36 | Lift |
| 13 | Cray 1 | 37 | Pavement |
| 14 | Cray 2 | 38 | Boot |
| 15 | EL | 39 | Arse |
| 16 | T90 | 40 | Bottom |
| 17 | MTA-2 | 41 | Toilet |
| 18 | HPC Cluster | 42 | Restroom/bathroom |
| 19 | MTA-1 | 43 | ATM |
| 20 | MTA-2 | 44 | Beer |
| 21 | SV1 | 45 | England |
| 22 | SX6 | 46 | Entrée |
| 23 | Origin2000 | 47 | First Floor |
| 24 | XMP | 48 | Suspenders |

Things Not to Say



- You speak with a funny accent
- Anything about the results of
 - Premier league
 - European Champions league

Things to Say



- May I buy you a beer
- Terry is a wonderful person & a credit to the human race

Acknowledgements



- CUG Board
- University of Manchester
- CRAY, SGI
- Time Computers, Danwood Group
- And you for attending





Welcome to CUG SUMMIT 2002

You won't be disappointed!







www.cug.org