NERC Training

Dr. David Topping, NCAS & The University of Manchester Dr. Michael K. Bane, High End Compute

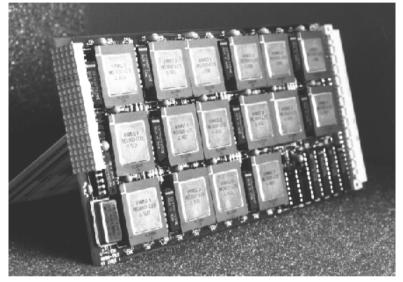
michael bane

- My first computer
 - VIC 20



https://aydinstone.wordpress.com/tag/commodore-vic-20/

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- My first parallel computer
 - INMOS Transputer



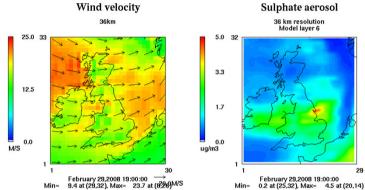
http://www.brunel.ac.uk/~eesttti/papers/main.html

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 - Energy Efficient Compute

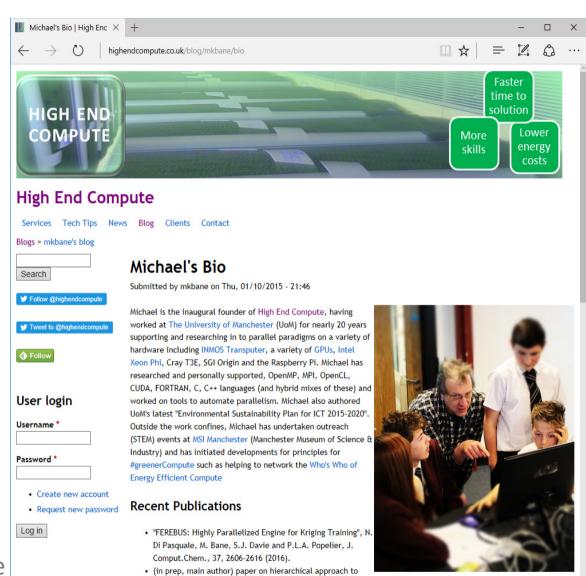








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- HEC Consultancy http://highendcompute.co.uk



2016: "Proceedings of the EMerging Technology (EMIT) Conference 2016. Editors: B.D.Rogers, D.Topping,

· (in prep) paper on optimising, using C, OpenMP and OpenCL, a computational atmospheric chemistry kernel

2016: "UManSysProp: An online facility for molecular property prediction and atmospheric aerosol calculations",
D.O. Topping, M. Barley, M. Bane, N. J. Higham, B. Aumont, and G. McFiggans, Geosci, Model, Dev. 9, 899-914, 2016

measure of energy efficient compute

F.Mantovani, M.K.Bane. ISBN 978-0-9933426-3-9"

Course Outline

Outline of course

- Introduction to parallelism
 - Languages, but also hardware
- Introduction to performance analysis
- Lots of hands on
 - VM & provided laptop
 - Access to "Archer"