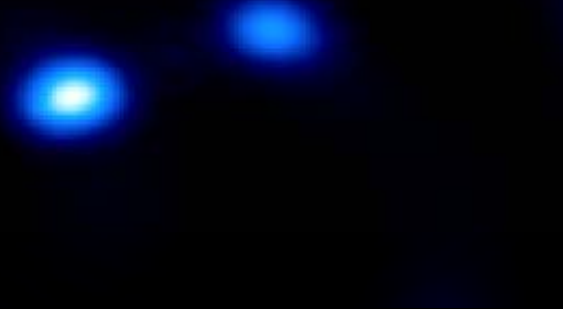


Welcome to CALIM 2010



Dr. Marco de Vos - Director of R&D
(devos@astron.nl)



**CALIM 2010: The 5th SKA Workshop
on Calibration and Imaging**

22 - 27 August 2010, Dwingeloo (NL)



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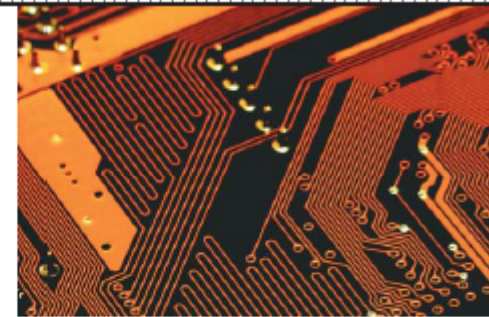
CS ELECTION CANDIDATES, P. 71

IEEE PRESIDENT-ELECT CANDIDATES, P. 79

SOFTWARE-BASED EVENT DETECTION, P. 95



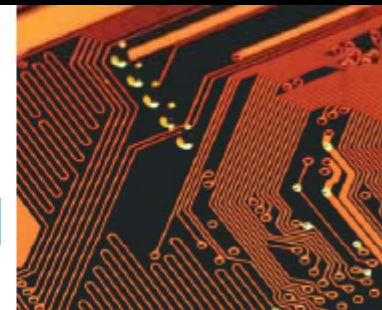
Real-World Distributed Computer with Ibis



➤ Henri E. Bal, Jason Maassen, Rob V. van Nieuwpoort, Niels Drost, Roelof Kemp, Timo van Kessel, Nick Palmer, Gosia Wrzesińska, Thilo Kielmann, Kees van Reeuwijk, Frank J. Seinstra, Ciel J.H. Jacobs, and Kees Verstoep
Vrije Universiteit, Amsterdam

The use of parallel and distributed computing systems is essential to meet the ever-increasing computational demands of many scientific and industrial applications. Ibis allows easy programming and deployment of compute-intensive distributed applications, even for dynamic, faulty, and heterogeneous environments.

Simulating the Universe on an Intercontinental Grid



➤ Simon Portegies Zwart, *Leiden Observatory* ➤ Cees de Laat, *University of Amsterdam*
➤ Tomoaki Ishiyama, *University of Tokyo* ➤ Stephen McMillan, *Drexel University*
➤ Derek Groen, *Leiden Observatory* ➤ Kei Hirald, *University of Tokyo*
➤ Keigo Nitadori, *RKEN* ➤ Stefan Harfst, *Leiden Observatory*
➤ Junichiro Makino, *National Astronomical Observatory of Japan* ➤ Paola Grosso, *University of Amsterdam*

The computational requirements of simulating a sector of the universe led an international team of researchers to try concurrent processing on two supercomputers half a world apart. Data traveled nearly 27,000 km in 0.277 second, crisscrossing two oceans to go from Amsterdam to Tokyo and back.