

SEMINARS SEMINAIRES

Monday 8 May

TECHNICAL PRESENTATION

at 10.30 hrs – CN Auditorium, bldg 31/3-005

Load sharing in large heterogeneous distributed systems

by Songnian ZHOU / Platform Computing Corporation

Most medium to large organisations nowadays have many computers connected by networks, typically acting as independent machines. This is the wrong computing paradigm: all the computers should be viewed as components of an enterprise computing system, and workload should be shared among all machines transparently to users.

In this talk, Zhou will describe the architecture and implementation of Load Sharing Facility (LSF), a distributed computing system which runs on all "modern" operating systems and provides transparent load sharing of all applications, parallel or sequential, submitted interactively or in batch. He will discuss Platform's experience applying LSF to large and complex user sites. He will also discuss Platform's on going research on distributed high performance computing.

Organiser : S. Cannon / CN / 5036

Tuesday 9 May

TECHNICAL PRESENTATION

at 09.30 hrs – CN Auditorium, bldg 31/3-005

Tools supporting quality in developing SW Systems.

by M. CASONI, N. PISCOPO, A. SERRA & A. CICU / Artis s.r.l & Asic s.r.l, Torino, Italy

The QualityLab (QL) Consortium has been established by ARTIS, ASIC, MetriQS and SIA to combine the companies' peculiar expertise in the field of SWE and software quality assurance applied to the whole development process of software systems. QL Consortium provides consultancy services in order to:-

QL Consortium provides consultancy services in order to:

- Reach the ISO9000 Certification standards.
- Optimise software production process reducing costs and risks through an integrated environment composed of tools for analysis, project, specific validation (Artifex, AX-ray) and the automatic code generation in distributed and heterogeneous environments (AxDCG)
- Check source code during the whole life-cycle development, through use of monitoring tools (LDRA Testbed for the static and dynamic code analysis) and functional testing of generated software (STW/Regression and Capback-NI for correctness and reliability).

The QL Consortium offers a set of integrated services: testing and monitoring of Quality projects and software products, as well as the continuous assessment and improvement of the software development following the CMM of SEI.

Organiser : S. Cannon / CN / 5036

Tuesday 9 May

SEMINAR

at 09.30 hrs – AT Auditorium, bldg 30, 7th floor

SABER Technology Update Seminar

by Peter Wilson, European Product Specialist, Analogy Europe Edmund Gerstl, Applications/Sales Eng., Analogy Munich

Electronic designs are getting increasingly complex. To help the engineer in his daily work, an ongoing process is taking place to develop and expand software tools that give the designer the means to design and optimise a circuit or a system in an easy and effective way.

The objective of this seminar is to give an update on the state of the art simulation methodology with the Saber simulator. It addresses newcomers as well as experienced Saber users. At the beginning, topics will be of general interest, and then gradually become more specific during the day.

09.30-10.00 Analog, Digital and Mixed Signal Simulation Principles. An introduction to Saber, including analog-digital signal conversion concepts and A-D simulator couplings.

10.00-10.30 The Power of Hierarchical Design and Graphical Modeling. Powerful simulation techniques, like graphical modeling and the philosophy of top down and bottom up design will be demonstrated.

10.30-11.30 Tools for More Reliable Designs. Sensitivity, Measurement and Stress Analysis are powerful Saber features. You will see how they can be used for speeding up the optimisation and validation process of a complex system. Methodologies for increasing design 'robustness' will also be shown.

14.00-15.30 The New 'RisingStar' User Environment. Saber's new simulator control and graphical post processing environment is flexible and user friendly, it will replace the current Human Interface and Pltool.

15.30-15.45 Coffee Break

15.45-16.15 New Saber Models. In the newest release of Saber a lot of new models have been added, e.g. GTO, Thyristor, optical devices etc. Modeled effects, parameters and their usage as well as their limitations will be discussed.

16.15-17.15 Tips and Tricks, and Q&A Session. An interactive presentation of tips and tricks for modeling and simulation. The seminar will close with a discussion of open questions and requests.

Organiser : Rudi Zurbuchen CN

Wednesday 10 May

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Duality symmetries in string theory

by Ashoke SEN / TIFR, Bombay

S-duality in four-dimensional heterotic string theory will be reviewed, and its relationship with duality symmetries in other dimensions will be discussed.

Thursday 11 May
LHCC REVIEW BOARDS
(LCRB, LDRB, LERB)

Open session

at 09.00 hrs – Council Chamber

- 09.00-09.30 RD12 Status Report: Readout system test benches (CERN–SEFT Helsinki– Tampere Univ. of Technology–LAPP Annecy–Padova–Pavia–Ecole Polytechnique–KFKI Budapest–MIT–Univ. of California San Diego; LHCC 95-26/LERB Status Report/RD12; S. Cittolin).
- 09.30-10.00 RD16 Status Report: FERMI Project-A digital front-end and readout microsystem for calorimetry at LHC(CERN–Linköping–LPNHE Univ. Paris VI–VII Paris–Politecnico di Milano–Pavia–Royal Institute of Technology Stockholm–Stockholm–ABB HAFO AB Järfälla–C.A.E.N. SpA Viareggio–SiCon AB Linköping; LHCC 95-28/LERB Status Report/RD16; B. Lofstedt).
- 10.00-10.30 RD40 Status Report: Development of quartz fiber calorimetry (CRN & Univ. Louis Paster Strasbourg–Florida State–Bologna–Pisa–Torino–Alessandria–ITEP Moscow–Oak Ridge National Lab.–PHASE Strasbourg; LHCC 95-27/LDRB Status Report/RD40; P. Gorodetzky).

Thursday 11 May

TECHNICAL PRESENTATION & DEMONSTRATION

at 10.00 hrs – CN Auditorium, bldg 31/3-005

OSCAR – Turn-Key Data Acquisition

OSCAR applies the ECP/DS group CASCADE data acquisition package to applications in small experiments, test beams and laboratory tests. Developed by ECP/ESS group in close collaboration with ECP/DS, OSCAR allows users to be on-line rapidly with minimum effort and with full support. OSCAR systems are based on VMEbus hardware and the OS-9 operating system, married to a choice of data recording devices, all of which may be rented from the Electronics Pool, or be integrated from the user's own equipment. A central server is used to bootstrap the hardware, to support the file systems and to provide the CASCADE run control via an X terminal.

Programme

- * Introduction
- * CASCADE - a brief overview, Yves Perrin ECP/DS
- * OSCAR - a technical description, Jaap Niewold ECP/ESS
- * Administrative and operational aspects, Chris Parkman ECP/ESS
- * Demonstration - Jorgen Petersen ECP/DS

Friday 12 May

SL SEMINAR

at 11.00 hrs – SL Auditorium
Prévessin site, bldg. 864, 1st floor

Studies at SLC on a dispersion free steering algorithm for future linear colliders

by Ralph ASSMANN / SLAC

The dispersive emittance growth in the main linac of future linear colliders must be kept very small in order to achieve the envisaged luminosity goals. This requirement imposes tolerances of below 10 microns on the quadrupole and BPM

alignment. In order to match those tolerances the use of beam-based optimization algorithms is foreseen in all proposals for future linear colliders. Studies on a dispersion-free steering algorithm at the SLC offer a unique opportunity to explore the potential and the possible problems of beam-based optimization tools in a real linear accelerator. The dispersion-free steering algorithm will be explained in detail and experimental results obtained at the SLC will be discussed.

Monday 15 May

TECHNICAL PRESENTATION

09.30 to 16.30 hrs – bldg 17/1-007

Materials and specialised services for research laboratories

by Martyn John LEWIS / Goodfellow Cambridge Limited (UK)

Small quantities of high purity metals and materials for research : metals, alloys, polymers, ceramics, composites and compounds in 26 forms including foils (thicknesses down to 1nm a speciality), rods, tubes, wires, powders, single crystals, etc. A free 500 page catalogue is available, detailing standard ex-stock items ready for immediate despatch with no minimum order quantity.

Languages: English, French, German

Information: M. Diraison / FI-A / 4585

Monday 15 May

ISOLDE EXPERIMENTS COMMITTEE

Open session

at 14.00 hrs – Council Chamber

For details, see next Bulletin

Monday 15 May

PPE SEMINAR

at 16.30 hrs – Auditorium

Silicon for Lead : use of Si pixels, pads, and strips for strangeness detection in Pb-Pb collisions

by Federico ANTINORI / CERN-PPE

High energy collisions of heavy nuclei are used to study the behaviour of matter at extreme energy densities, where a phase transition to a deconfined state of quarks and gluons is predicted to take place. Strange hadron production was predicted long ago to be sensitive to such a transition. Indeed a surprising pattern of strangeness enhancement has been observed in the collisions of light nuclei over the past few years. At present, experiment WA97 studies the production of strange hadrons in Pb-Pb collisions at 160 GeV/c per nucleon beam momentum. The experimental challenge posed by the need of reconstructing the strange particle weak decay vertices amidst a large background of primary tracks is met by employing silicon microdetectors: WA97 operates a telescope made of silicon microstrips, silicon pads and the novel silicon pixel detectors developed in collaboration with the RD19 group. The first run took place last fall, with encouraging results : the silicon approach to the high track density environment of nucleus-nucleus collisions indeed seems very promising.

Tuesday 16 May
LARGE HADRON COLLIDER COMMITTEE

Open Session

at 09.00 hrs – Auditorium

- 09.00-09.15 Status of the LHC project (C. Llewellyn Smith)
09.15-09.45 Debye screening in heavy ion collisions with the ALICE detector (J. Schukraft)
10.00-10.40 Expression of Interest for a “BEAM-DUMP” upgrade of L3 for the LHC (P. Fisher, J. Kirkby)

Tuesday 16 May
ISOLDE COLLABORATION OPEN MEETING

at 09.30 hrs – Conf. Rooms, bldg 304/1-001, A+B

Status and development of the PS-Booster-Isolde

- G. Huber Opening
H. Ravn New Beams at ISOLDE
J. Lettry Proton beams interacting with targets and shock waves
E. Kugler Completion of the ISOLDE move to the PS-Booster

- O. Jonson Recent development in the ISOLDE Control system
M. Lindroos The GOOSY data-taking system

Tuesday 16 May
TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-005

Result-Oriented IT R&D Methodology in India

by Kesav NORI / Vice President R&D,
TATA Consultancy Services INDIA

Organiser : S. Cannon / CN / 5036

Mercredi 17 mai
PRESENTATION TECHNIQUE

09h30–16h00 – parking près du bât. 252, côté bât.265

Programme appareillage basse tension

par Klöckner-Moeller SA (D/CH)

Langue : français

Renseignements : M. Diraison / FI-A / 4585

EDUCATION SERVICES EDUCATIFS

**ENSEIGNEMENT
GÉNÉRAL**
Tél. 5811

Jeudi 11 mai

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

ACADEMIC TRAINING
Tel. 3127

8, 9, 10, 11 & 12 May

11.00 to 12.00 hrs – Auditorium

Issues in the design of LHC

by L. EVANS/ CERN-DG &
Y. BACONNIER/ CERN-AC

**FORMATION : PERSPECTIVES QUINQUENNALES
PLAN DE FORMATION CERN 1995**

Le document “Formation : Perspectives quinquennales” et le Plan de Formation 1995 établis par la Commission Paritaire de Formation et de Perfectionnement ont été approuvés par le Directoire le 13 mars 1995. Ces documents comprennent les commentaires du Directeur général et les recommandations pour 1995.

Les textes définitifs sont en anglais. Tous les chefs de groupe et chefs de section recevront un exemplaire de ces documents par l'intermédiaire du délégué à la formation de leur division.

Toute autre personne intéressée peut obtenir une copie :

- auprès des secrétariats de Division
- en contactant N. Dumeaux par e-mail ou par tél. 8144.

Les textes seront bientôt disponibles sur un serveur. Des informations détaillées seront publiées dès que possible.

**FIVE YEAR FORWARD LOOK AT TRAINING
1995 CERN TRAINING PLAN**

The Five Year Forward Look at Training and the 1995 CERN Training Plan, prepared by the Joint Training Board, were approved by the Directorate on 13 March 1995. The final texts are now available, including the comments by the Director-General as well as the recommendations for 1995.

The definitive texts are in English. Copies of these documents are being distributed to all group and section leaders via their Divisional Training Officer.

Anyone else interested may obtain a copy :

- at your Divisional Secretariat
- from Education Services, N. Dumeaux by e-mail or tel. 8144.

The texts will shortly be available on a server. Further information will be published in due course.