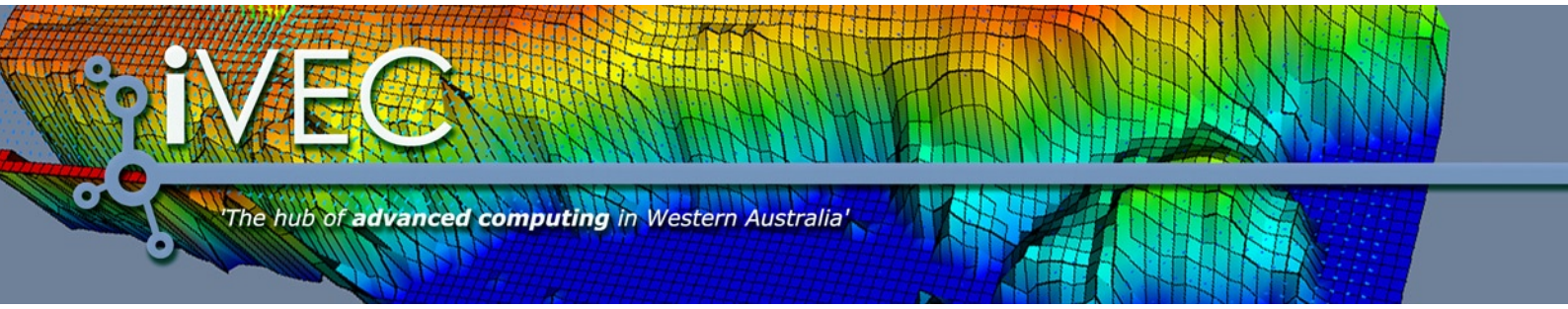
iVEC and **APAC** National Facility Courses >



***iVEC** invites you to attend the following* **iVEC and APAC National Facility Courses**

This series of **hands on courses** covers accessing iVEC, obtaining help, available resources and iVEC's position in the national picture; to specific courses on programming and optimising MPI applications.

April 18 / April 19 > **Introduction to iVEC**

A one day hands on course introducing iVEC, its facilities, available resources and how to access these. The course will focus on iVEC resources with some detail about obtaining access to national resources of APAC, such as the APAC National Facility. Please note that the April 18 and 19 courses are the same.

April 20> **Programming with MPI**

Introductory one day course on programming using the MPI library. Course pre-requisites include a working knowledge of Fortran or C, UNIX, and a UNIX editor (vi or emacs) will be assumed. Attendees must have previously taken the "Introduction to iVEC" or "Introduction to the APAC National Facility" course or be familiar with the PBS queue and environment on iVEC or the APAC National Facility.

April 21> **MPI Appilcations and Optimisation**

Introductory one day course on performance issues related to parallelising applications particularly using message passing and the MPI library. Course pre-requisites include a working knowledge of Fortran or C, UNIX, and a UNIX editor (vi or emacs) will be assumed. Attendees must also have EITHER completed the "Introduction to Programming with MPI" course OR have a working knowledge of MPI programming and have used the APAC National Facility or iVEC HPC systems.

Acting as *'the hub of advanced computing in Western Australia'*, iVEC is a high performance computing (HPC) and visualisation centre. iVEC provides access to cutting edge high performance computing and visualisation labs to researchers and industry, holds seminars and conferences on computational science and HPC, and provides support to students and industry personnel, researchers, academics and scientists through training, scholarships and seminars on advanced computing and research and development opportunities. Application areas include nanotechnology, high energy physics, medical and mining training, medical research, mining and petroleum, architecture and construction, multimedia, and urban planning.

APAC (the Australian Partnership for Advanced Computing) was established to strengthen Australia's advanced computing infrastructure and expertise for the Australian research community. APAC has three main programs: the National Facility Program (including a sub-program on Computational Tools and Techniques (CT&T), the APAC Grid Program and the Education, Outreach and Training (EOT) Program.

apac CSIRO The University of Western Australia MURDOCH UNIVERSITY Curtin University of Technology TAFE WA central

Where: **eCentral TAFE, 140 Royal Parade, East Perth**

Time: **9am to 5pm, each day**

Cost: **FREE, morning and afternoon tea is provided**

Registration: **Dr Stuart Midgley by Wednesday April 12 via email stuart.midgley@ivec.org Places are limited, rsvp is essential**