



SX-ACE – Fundamentals, Code Porting and Optimisation (Introductory and Advanced Level)

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Date & Time: January 25 & 26, 2016 9:30 – 6 p.m.
Location: E-4025
Language: English
POLMAR credit points: max. 2
Registration: dirk.barbi@awi.de

Please register by January 18, latest

Please indicate for which day you would like to register

Course content:

The course introduces users to AWI's high performance computer NEC SX-ACE ("stan") and outlines the fundamentals of vector computer architecture, code porting and basic vectorization methods.

The workshop consists of a mixture of lecture and hands-on sessions.

Day 1: addresses users with no or little knowledge (introductory level)

Day 2: addresses advanced users (advanced level; place availability given, participants can register for both days)

For detailed program, please see page 2.

Target group: All potential users of AWI's high performance computer NEC SX-ACE ("stan").

Pre-requisites: Please bring a laptop with access to SX-ACE and prepare model codes to be ported and/or optimized.

More information: dirk.barbi@awi.de

Agenda SX user training

Jan. 25

9:30 – 11:00 Overview and basics on vectorization

Coffee break

11:30 – 13:00 Compilers, options and performance analysis

Lunch break

14:00 – 15:00 Optimization and vectorization examples

Coffee break

15:30 – 17:30 “Hands on” session: porting, run time, performance statistics

Jan. 26

9:30 – 11:00 NEC SX-ACE: Architecture and new features

Coffee break

11:30 – 13:00 Improving vectorization and efficiency, examples

Lunch break

14:00 – 17:00 “Hands-on” session: improving vectorization and efficiency