

Agenda Sun Application Tuning Seminar

June 16-18, 2003

**Carleton University, Ottawa ON
Lecture: Herzberg Physics Bldg #4351
Lab: Herzberg Physics Bldg #3349**

June 19-21, 2003

**Queen's University, Kingston ON
Lecture: Walter Light Hall #205
Lab: Walter Light Hall #212**

Day 1

Welcome and Introduction	09:00-09:15
Prologue	09:15-09:45
The Memory Hierarchy	09:45-10:30
Solaris	10:30-11:00
<i>Coffee/tea break</i>	<i>11:00-11:15</i>
Compiler Options	11:15-12:30
<i>Lunch</i>	<i>12:30-14:00</i>
Lab 1 - Getting started and Compiler Options	14:00-14:45
Review Lab 1	14:45-15:00
Performance Analysis Tools	15:00-15:45
<i>Coffee/tea break</i>	<i>15:45-16:00</i>
Demo I - Performance Analyzer	16:00-16:45
Labs 2 and 3 - Performance Analyzer and Compiler Messages	16:45-17:30
Review Labs 2 and 3	17:30-18:00

Day 2

Architecture Overview	09:00-09:45
Serial Optimization Techniques	09:45-10:30
Modulo Scheduling – Part I	10:30-11:00
<i>Coffee/tea break</i>	<i>11:00-11:15</i>
Modulo Scheduling – Part II	11:15-11:45
Lab 4- Manual Tuning	11:45-12:30
<i>Lunch</i>	<i>12:30-14:00</i>
Lab 4- Manual Tuning (continued)	14:00-14:30
Review Lab 4	14:30-15:00
Performance Tuning Case Studies	15:00-15:45
<i>Coffee/tea break</i>	<i>15:45-16:00</i>
Introduction Into Parallelization	16:00-17:00
Introduction MPI on Sun	17:00-17:30
Data Dependency Analysis	17:30-18:00

Day 3

Automatic Parallelization	09:00-10:00
Lab5 - Automatic Parallelization	10:00-10:45
Review Lab 5	10:45-11:00
<i>Coffee/tea break</i>	<i>11:00-11:15</i>
The Shared Memory Toolbox	11:15-11:45
Explicit Shared Memory Parallelization with OpenMP – Part I	11:45-12:30
<i>Lunch</i>	<i>12:30-14:00</i>
Lab 6 - Explicit Parallelization	14:00-15:00
Review Lab 6	15:00-15:15
Explicit Shared Memory Parallelization with OpenMP – Part II	15:15-15:45
<i>Coffee/tea break</i>	<i>15:45-16:00</i>
Tuning OpenMP Applications	16:00-16:45
Demo II - Performance Analyzer	16:45-17:15
OpenMP Case Studies	17:15-18:00

- Close Of Seminar -