

Floating Point Indoctrination Class Schedule

Most classes 8:00-10:00 AM at Sun Microsystems Bldg. 7, 2700 Coast Ave, Mountain View, CA.

All lectures by Prof. William Kahan unless otherwise specified.

##	1988	Topics

01	May 03	-- Overview: mysteries, expectations, exceptions
02	May 05	-- Overview cont.
03	May 10	-- Integers, algebraic sign
04	May 12	-- Exceptions, benchmarks, rational arith, symbolic calcs
05	May 17	-- Floating point formats, precision, error
06	May 19	-- Overflow, underflow, roundoff, Horner's recurrence
07	May 24	-- Numerical Analysis in C, quot, sqrt, gradual underflow
08	May 26	-- IEEE 754/854
09	May 31	-- sgl(dbl) =? sgl, solving the quadratic
10	Jun 02	-- Multi-word arithmetic, nonstandard arithmetics, ACRITH
11	Jun 07	Ulrich Kulisch -- ACRITH
12	Jun 12	-- ACRITH critique, CORIC, 8087 stack
13	Jun 14	Jim Valerio -- Intel 80387 transcendentals, 80960, IEEE 754
14	Jun 16	-- Argument reduction for trig functions
15	Jun 21	Tom Anderson -- Cydrome Cydra-5
16	Jun 23	-- Symbolic math systems, precision, Gaussian elimination
17	Jun 28	-- Multiple-precision & other language issues
18	Jun 30	Cleve Moler -- 25 Years with Mathematical Software
19	Jul 05	-- Exception handling, more Gaussian elimination
20	Jul 07	-- Doubled precision, more Gaussian elimination
21	Jul 12	-- Exception handling, including Pyramid, Sun
22	Jul 14	-- Exception handling, including Weitek, IBM, VAX, Mips
23	Jul 19	with Clayton Lewis -- Exception handling on Cray, Apple, APL
24	Jul 21	-- Exceptions, singularities, signed 0
25	Jul 26	-- Retrospective diagnostics
26	Jul 28	-- NaNs, tests, models
27	Jul 28	PM -- Summation: Is Floating Point Arithmetic a Moral Issue?