Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Jan 22
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45   Coffee and Pastries

10:00   Technical Session: **XML**

XML is a web page markup language tool for tagging source code, such as Java, written into a web document to be parsed out, interpreted and executed once the page is delivered to the client. Anyone who knows about XML is invited to share knowledge of it during this session.

12:00   Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00   Introductions and Announcements

13:30   Featured Talk: Forth University, *C.H. Ting*

Forth University will be discussed; it is an online teaching facility offering self-study courses, degrees and certificates.

All studying courses and materials are free. Degrees are granted on supervised research work and reports. Certificates are issued on authentic work and projects approved by referees. Referrer of expertise and job opportunities.

The university will break the limits of time and geography, and provide much more opportunities to widen the Forth community and the Forth technology.

14:30   Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00   Adjourn

Next Business Meeting: Monday, 2000 Feb 07, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Feb 26
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45   Coffee and Pastries

10:00   Technical Session: **68HC12 Evaluation Board — C.H. Ting**

Richard Haskell wrote a book on the HC12. This book also includes a full-featured Forth system for it. Ting will talk about the chip, the Forth, and maybe about the application. The board costs 125 $. Haskell's book costs 91 $. But it is worth it for those who have an application.

12:00   Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00   Introductions and Announcements

13:30   Featured Talk: A Game in Forth? — *J.D. Carpenter*

John will talk about the features of a game written by Rick Van Norman in Swift Forth. This game is freely available from the Forth, Inc web site for those who use Swift Forth.

14:30   Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00   Adjourn

Next Business Meeting: Monday, 2000 Mar 06, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Mar 25
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: **ADSP 2181 — *C.H. Ting***

The interesting feature of this chip is that it has 80K of RAM so that an entire Forth application can be moved from ROM to RAM for execution on this very fast chip. Ting will put eForth onto the chip and give a progress report on his efforts.

12:00 Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00 Introductions and Announcements

13:30 Featured Talk: Its in the Mouse — *Jeff Fox*

Jeff has a nice demonstration of his latest f21 application. The boot code, OS, GUI and application total about 1K of code. The GUI is couple of hundred words in this form but is very incomplete. A full GUI with multiple fonts and all the reentrant windows and widgets takes a full K or two.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00 Adjourn

Next Business Meeting: Monday, 2000 Apr 03, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Apr 22
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: **The Forth Compiler for ADSP2181 --- *C H. Ting***

The program memory in the 2181 is 24-bits wide and the data memory is 16-bits wide. One needs different memory access words for these memory spaces. As eForth is now fully operational, we hope that Ting will demonstrate the 2181 eForth in ROM.

12:00 Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00 Introductions and Announcements

13:30 Featured Talk: Development on a Palm Pilot --- *Skip Carter*

Skip will talk about what Palm Pilot development is like in general and will demonstrate a robot driver application as an example.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00 Adjourn

Next Business Meeting: Monday, 2000 May 08, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 May 27
(Memorial Day Weekend)
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: Multi-taskers --- *Al Krever*

Al, a Forth programmer for 20 years, will talk in general about how multi-taskers work and their fundamental features/functions. This tutorial applies to all implementations and emphasizes technique rather than idiosyncratic features of one package or another.

NOTE: Al is experienced with all aspects of Forth including sales and marketing and he is willing to entertain any questions.

12:00 Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00 Introductions and Announcements

13:30 Featured Talk: I^{2}C Fuzzy Logic Controller --- *Al Mitchell*

The Fuzzy Logic Controller substantially reduces system loads and provides much finer regulation than traditional algorithmic control. Reducing the controller to an autonomous peripheral improved response by an order of magnitude and simplified the master controller program. Al will talk about such an intelligent I^{2}C fuzzy logic controller he has been working with.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00 Adjourn

Next Business Meeting: Monday, 2000 Jun 05, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Jun 24
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: gForth

This is a Forth that is associated with Linux or Unix. Any and all who know about this Forth are invited to talk about it informally during this session.

12:00 Lunch Break --- Offete Fetes a Barbeque

Ting's company will host a barbeque.

13:00 Introductions and Announcements

A gift will be announced for Henrik Thurfjell for providing us his hospitality in May.

13:30 Featured Talk: Accessing other Application Windows from Forth --- *Andy Korsak*

Andy used the Win32Forth DLL operation to call functions out of a National Instruments DLL for controlling an HP spectrum analyzer and a LeCroy scope. He then developed a routine to store the LeCroy raw data and other scope parameters. He then plans to integrate an adaptation of the WinForth32 dialog box example for user setups.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

C.H. Ting has signed up for the following:

1. VHDL implementation of P16

2. V2OS, an interesting floppy-booting OS with a Forth-like application --- fifth. It can be the foundation of BIOS Forth, and other 32-bit protected mode Forths.

16:00 Adjourn

Next Business Meeting: Monday, 2000 Jun 26, (July 3 is in the 4th of July weekend) at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Jul 22
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: **Color Forth 2000 – *Charles Moore***

Chuck will talk about the latest version of his Color Forth. This will including source code packing, Pentium optimization, word addressing and visible variables.

12:00 Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00 Introductions and Announcements

13:30 Featured Talk: Computer Graphics – Cogswell College

This is tentative. A final decision on a presentation has not been made yet.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00 Adjourn

Note: Next month's FIG meeting will be on the *third* Saturday, Aug 19, because Cogswell will be closed on Aug 26. At that meeting, Jef Raskin is scheduled to talk about his recent book, "The Humane Interface", and the tools for creating one.

Next Business Meeting: Monday, 2000 Jul 31, at 19:00 Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Aug 19
at Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45 Coffee and Pastries

10:00 Technical Session: **VHDL 101 --- *C. H. Ting***

As an introduction to VHDL design language, and using P16 as example, Ting will discuss the minimal VHDL elements to build useful applications. VHDL can be very complicated and mysterious. However, there are only a few elements and constructs one will need to express logic, registers, memory, and state machines. But they are sufficient to build a 16-bit microprocessor like P16.

12:00 Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00 Introductions and Announcements

13:30 Featured Talk: The Humane Interface --- *Jef Raskin*

Jef , who created the Macintosh project at Apple and was the lead designer of the all-Forth-implemented Canon Cat, is the author of a new book, The Humane Interface.

Raskin in his book presents a rational, empirically based and engineering-oriented approach to interface design, and shows that most of today's interfaces are fundamentally flawed. He points out that you cannot implement a good interface with tools like Visual Basic and the various interface toolboxes currently provided. (But you can do it with Forth). He will discuss the book, and explain his development of tools for designing and analyzing interfaces.

14:30 Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00 Adjourn

Next Business Meeting: Monday, 2000 Aug 28 (Sept 04 is Labor Day) at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Sep 23
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45   **Coffee and Pastries**

10:00   **Technical Session**: **Using Forth to Bring a 70's Mini-computer Back to Life ---** *Dwight Elvey* (tentative - this may be rescheduled to 3pm)

Lately, Dwight has been making a disassembler/assembler for a NIC-80 mini-computer (70s w/ core). He will be giving a talk at VCF on bringing this machine back to life. At our meeting he will talk about how he used Forth to help him do this.

12:00   **Lunch Break**

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00   **Introductions and Announcements**

13:30   **Featured Talk: G4 Cube ---** *John Hall*

John will talk about the G4 Cube, a new offering from Apple Computer. He will bring a unit with flat panel, keyboard, mouse and speakers. He will also see if he can get an new iBook with wireless ethernet that can connect with it.

14:30   **Afternoon Tea**

Networking and demonstrations

15:00   **Impromptu Talks**

Sign up for these talks on the white board during the breaks.

There may be a discussion sometime at this meeting about the possibility of "Spring in Reno" which will be an "outreach for Forth" type of promotion which is intended to replace the defunct Rochester Conference.

16:00   **Adjourn**

Next Business Meeting: Monday, 2000 Oct 02, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Oct 28
at
Cogswell College
1175 Bordeaux Dr, Sunnyvale, California

09:45   **Coffee and Pastries**

10:00   **Technical Session**: **Taiwan Trip Report,** *CH Ting*

Ting will report on his most recent trip to Taiwan, including what is the latest about Forth there as well as the latest in the semiconductor technology that is being manufactured

12:00   **Lunch Break**

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00   **Introductions and Announcements**

13:30   **Featured Talk:**

"A Sage Who Does Not Teach is the Same as a Fool", *Wil Baden*

Pumping ship. [was that supposed to be "Jumping Ship"?]

14:30   **Afternoon Tea**

Networking and demonstrations

15:00   **Impromptu Talks**

Sign up for these talks on the white board during the breaks.

16:00   **Adjourn**

Next Business Meeting: Monday, 2000 Oct 30, at 19:00 (for Forth Day on the second Saturday). Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

Silicon Valley Chapter of the Forth Interest Group

"Forth Day", Saturday, 2000 Nov 11

at

Cogswell College

1175 Bordeaux Dr, Sunnyvale, California

Schedule of Presentations

Time   Speaker   Title of Talk   (the latest from the web page announcing this event)

10:00   Dave Jaffe   Radio Controlled Operator Interface

10:15   Chuck Moore   Bluetooth Wireless Protocol

10:30   Kevin Appert   A Commercial for SWIFTX and the Vesta SBC2000-332

10:45   Jeff Fox   New Software for F21

11:00   C.H. Ting   Forth Engine in FPGA

11:15   John Rible   QS P16 - Same-Old Once Again

11:30

11:45   George Perry   Sounds Like Forth

12:00   To be announced (possibly an Offette Interprises offering)

13:15   John Rible   SVFIG Treasurer's Report

13:30   Neil Bawd   Neil Bawd's Ugly Home Page -- Whence, What, and Whither

13:45   Wil Baden   HTML Markup -- From Source Code to HTML

14:00   Al Mitchell   An 8051 Umbilical Forth under Gforth and Linux

14:15   Robert Nash   A Standalone Programmer for ATMEL Flash Microprocessors

14:30   Charley Shattuck   An 8-bit, Target-resident Forth for the 8051

15:00

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16:00   Chuck Moore   Fireside Chat

18:00 There is a **dinner** planned afterwards. One suggestion is that we can go to Kapp's Pizza at Villa and Castro (Moffett) in Mountain View. We will get a head count by noon and make reservations at this place or any other place that will be decided. Kapp's is somewhat upscale in ambience though casual and serves other things as well as pizza such as calzones, salads, hot sandwiches, etc. There is a small area downstairs that can accommodate more then we would expect to attend.

Silicon Valley Chapter of the Forth Interest Group

Meeting Agenda for Saturday, 2000 Dec 16

at

Cogswell College

1175 Bordeaux Dr, Sunnyvale, California

09:45   Coffee and Pastries

10:00   Technical Session: QSP16 – Same Old, One More Time – *John Rible*

John tries a slightly different way of packing 3 5-bit op codes into a 16-bit word, implemented in a FPGA.

12:00   Lunch Break

Networking, demonstrations, and tutorials.
Sign up for tutorials by name and topic on the white board.

13:00   Introductions and Announcements

13:30   Featured Talk: aha, ENTH, and Flux -- *Jeff Fox*

aha -- a new Forth environment for F21, combining some of Chuck Moore's ideas in cmForth, OK, Machine Forth, and Color Forth with new ideas from Jeff Fox. Small and fast, aha uses Forth source compressed about five times, and has amazing compile times.

ENTH and *Flux* -- stand alone floppy-boot Forths for the Pentium, from Sean Pringle. ENTH is a conventional mostly-ANS Forth. Flux is a portable Color Forth that uses one aha technique to compress source and eliminate dictionary search at compile time.

14:30   Afternoon Tea

Networking and demonstrations

15:00   Impromptu Talks

Sign up for these talks on the white board during the breaks.

16:00   Adjourn

Next Business Meeting: Monday, 2001 Jan 08, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.