Pre-Conference Optional 1-Day Training

APL2000 User Conference - Sunday, April 25, 2010
Hyatt Regency, Bethesda, Maryland

Time			Session
9:30 AM	-	10:00 AM	**Registration and Continental Breakfast**
10:00 AM	-	1:00 PM	**Introduction to APL Part I,** *Kevin Weaver*
			APL is a powerful application development language. Using APL, developers experience substantial gains in productivity, improved ease of use and and greater flexibility when enhancing ever-changing applications.
			The one-day Introduction to APL training course will provide an overview of APL and practical examples that will enable attendees to be productive almost immediately. You do not need any prior programming or development experience to benefit from the class.
			Beginning with the "basics", this course will provide a sound reference to a large selection of APL primitive functions, how to apply these functions to business related concepts, and covers the use of vectors and multi dimensional arrays.
			Attendees will learn how to write useful functions (programs) that will lead to the development of sophisticated applications – all with an eye toward being effective, productive, and efficient (cost-effective) in the building of business applications.
			A laptop/notebook with APL installed is recommended for this class. A copy of APL+Win will be provided for those who need it.
1:00 PM	-	2:00 PM	**Lunch**
2:00 PM	-	5:00 PM	**Introduction to APL Part II,** *Kevin Weaver*
			Continuation of this morning's class.

Note: All sessions subject to change without notice.

APL2000 User Conference - Monday, April 26, 2010
Hyatt Regency, Bethesda, Maryland

Time	Session
8:00 AM - 9:00 AM	**Registration and Continental Breakfast**
9:00 AM - 9:15 AM	**Welcome and Conference Overview,** *Joe Blaze, Sonia Beekman and Doug Masto*
9:15 AM - 10:15 AM	**APL+Win: What's New in Verions 9-10?,** *John Walker*
	This session will highlight the new enhancements and important bug fixes in version 9 and the new enhancements in the upcoming release, version 10. Examples include: Programmatic unloading of a DLL or ActiveX control in memory, New ⎕EVAL monadic system function as replacement for the execute primitive function when processing very long vectors, enhancement to ⎕WCALL to allow the W_CreateFilter API to operate with DEP (Data Execution Prevention) enabled in Windows, Custom APL+Win Branding, Larger workspaces (v10), Enhancement to :Try/:Catch control structures (v10), and Increase the number of elements in arrays (v10).
10:15 AM - 10:30 AM	**Morning Break**
10:30 AM - 11:30 AM	**APL+Win: Support More Memory for Significantly Larger Workspace,** *Patrick Parks*
	This session discusses enhancements that allow APL+Win to take better advantage of available system memory by accessing memory above the traditional 2GB maximum address and splitting the workspace into segments so it can span parts of memory reserved by the operating system. This allows workspace sizes up to 4 billion bytes on Win64 systems and up to 3 billion bytes on Win32 systems that have 4-Gigabyte-Tuning enabled.
11:30 AM - 12:15 PM	**APL+Win: Using Subversion for Version Control of Code Developed in APL+Win,** *Duncan McArthur*
	This session will discuss how to use an industrial-grade code management system (e.g. Subversion) for managing APL source code.
12:15 PM - 1:15 PM	**Lunch**
1:15 PM - 1:45 PM	**APL+Win: Why Consider Web-enabling Your APL +Win Application,** *Joe Blaze*
	This session will discuss the benefits of web-enabling your APL Application such as centralized maintenance, low marginal cost to add users, thin client architecture and software as a service.
1:45 PM - 2:45 PM	**APL+Win: To Nest or Not,** *Roy Sykes*
	Nested and heterogeneous data structures have powerful advantages in many applications, but they are inappropriate and inefficient in many others. We'll discuss guidelines for simple and nested arrays, iimplications for storage and efficiency, and illustrate the good, the bad, and the ugly of nested arrays.
2:45 PM - 3:00 PM	**Afternoon Break**
3:00 PM - 4:00 PM	**Breakout I**
	APL+Win: Hardcore APL, *Roy Sykes*
	Don't know what a prototype, a fill item, or an identity function is? Can't comprehend a megabyte empty array or a trillion-element array? This session will explain them all and give you ideas as to how to exploit them. You ask the questions and we'll give the answers in much of this session.
	Breakout II
	APL+Win: An APL to Excel Toolkit, *Eric Baelen*
	This session is an introduction to workspace functions that allow APL+Win to create or modify Excel Spreadsheets. Learn everything you need to know to allow your users to have their results prepackaged as an Excel workbook.
4:30 PM	**Board buses for sightseeing and dinner**

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APL2000 User Conference - Tuesday, April 27, 2010
Hyatt Regency, Bethesda, Maryland

Time	Session
8:00 AM - 8:30 AM	**Continental Breakfast**
8:30 AM - 9:15 AM	**APL+Win: Improving Application System Performance,** *Jeremy Main*
	A review of techniques to speed things up in APL+Win through the use of ⎕MF, the workspace monitoring function, using alternative algorithms and coding style and through the organization of the data flow in the application.
9:15 AM - 10:00 AM	**APL+Win: Easy Multi-Threading to Exploit Multi-Core Processing,** *Joe Blaze and Jairo Lopez*
	Learn how to configure the new "APL Supervisor" for asynchronous multi-threaded processing in your application system**.**
10:00 AM - 10:15 AM	**Morning Break**
10:15 AM - 10:45 AM	**VisualAPL: APL for the Microsoft .Net Development Platform,** *Jairo Lopez and Joe Blaze*
	Learn more about VisualAPL so you can take full advantage of .Net, the current Microsoft Windows development platform.
10:45 AM - 11:15 AM	**APL2000 Products and Services,** *Sonia Beekman*
	An overview of products and services available through APL2000 including descriptions and pricing.
11:15 AM - 11:45 AM	**"The Men Who Stare At Arrays" - Doumentary Film Project About APL,** *Catherine Lathwell*
	Catherine Lathwell, daughter of Richard Lathwell, one of the original developers of APL recruited by IBM in 1966, and herself an APL programmer, will show a work-in-progress and talk about "The Men Who Stare at Arrays," the working title for her documentary project about APL and its descendant array processing languages. More info @ www.aprogramminglanguage.com
11:45 AM - 1:00 PM	**Lunch**
1:00 PM - 2:00 PM	**APL+Win: Error Handling and Debugging Enhancements,** *Patrick Parks*
	This session discusses enhancements to error handling and debugging in APL+Win including: (1) addition of :FINALLY, :CATCH, and :TRYALL statements for easier and more efficient coding; (2) enhancement of :TRY statement that makes it easier to catch errors that occur in functions called by the try-block; (3) the addition of ⎕ES, ⎕ESH, and ⎕ESC to allow enhanced error capture for debugging purposes; (4) enhancements to WATCHPOINT feature to be more efficient and flexible, and easier to use; and (5) enhanced diagnostic output and crash recovery workspace when APL+Win crashes.
2:00 PM - 3:00 PM	**APL+Win: A Proposal for a Utility Developer Consortium,** *Gary Bergquist*
	This session is for APL+Win fans who believe in the future of APL. We will discuss what makes APL special and how we can play an active role moving it forward. During this session, Gary Bergquist will present his plan for establishing a consortium of APL+Win developers who are interested in a mutually-beneficial arrangement for sharing application-specific utilities. APL2000 is happy to facilitate communication among the members of this group who are APL+Win subscribers.
3:00 PM - 4:00 PM	**APL+Win: Interfacing C#, .Net and APL+Win - Examples and Benefits,** *Eric Lescasse*
	This Session will demonstrate a few examples showing how to interface C# and APL+Win and how to build applications that use both languages. Also, the benefits you can get from using both languages in your applications will be explained.
4:00 PM - 4:15 PM	**Afternoon Break**
4:15 PM - 5:15 PM	**APL+Win: Using Regular Expressions For More Powerful Searches in Your APL+Win Workspace,** *Eric Lescasse*
	Regular Expressions at the rescue! This Session will briefly introduce Regular Expressions and will demonstrate an]rxloc User Command built on a C# DLL using Regular Expressions to do more powerful searches in your APL workspaces.
5:15 PM - 6:00 PM	**Looking to the Future – Open Forum with the APL2000 Team**
	Direct your questions to the APL2000 team. Learn about potential future enhancements to APL2000 products including a 64-bit version of APL+Win, additional Unicode features in APL+Win, Intersection & Union operators in APL+Win, VisualAPL for .Net 4.0/VS2010, APL WebServices integration with IIS-7.

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