Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Jan 85	2	18-Digit Arithmetic, Part 9 Subject: math / utility / technical Notes: the DP18 PRINT statement System: Applesoft	Bob Sander-Cederlof and Bob
Jan 85	25	Symbol Table Source Maker Subject: utility Notes: building an equate file from a symbol table	Peter McInerney and Bruce L
Jan 85	31	Short Single-Byte Hex-to-Decimal Printer Subject: utility / routine Notes: convert a single byte into a three digit decimal number System: DOS	Bob Sander-Cederlof
Feb 85	2	18-Digit Arithmetic, Part 10 Subject: utility / programming Notes: the DP18 INPUT statement System: Applesoft	Bob Sander-Cederlof
Feb 85	16	Questions and Answers (about the S-C Assembler) Distributor/Column: S-C software Subject: tip System: S-C Assembler	
Feb 85	18	Patches Available for Time/Date in Titles Subject: tip / patch / clock utility Notes: a patch to include a time string in the .Title System: S-C Assembler / ThunderClock	R.M. Yost
Feb 85	19	Write Guard Disk Modification Kit Distributor/Column: Mark IV Designs Subject: hardware Notes: override the write protect switch in a disk drive Price: $40	Hansen, Mark
Feb 85	20	Assembly Language for Applesoft Programmers Distributor/Column: Addison-Wesley Subject: book / programming Notes: for the person who wants to USE assembly with AppleSoft System: assembly Price: $17	Myers and Finley; rb Bob S
Feb 85	21	Making DOS-less Disks Subject: technical / DOS Notes: examining the File Manager INIT code	Bob Sander-Cederlof
Feb 85	25	Correction for Symbol Table Source Maker Subject: bug fix Notes: the entry address was wrong (based on a prerelease copy of 2.0)	Bob Sander-Cederlof
Feb 85	26	Building Hi-Res Pre-Shift Tables Subject: technique / graphics / animation Notes: a program to generate the tables (see Byte 12/84)	Gianluca Pomponi
Mar 85	2	Shortening the DOS File Buffer Builder Key Terms: optimizing / bum Subject: technical / technique Notes: shrinking down the routine System: DOS 3.3	Bob Sander-Cederlof
Mar 85	10	65C02s in Old Apples Key Terms: Understanding the Apple IIe / timing Subject: microprocessor Notes: why they don't work System: 65C02	Jim Sather
Mar 85	15	Improved DOS 3.3 Number Parsing and lower-case DOS Commands Subject: technique / tip / operating system Notes: crunching the number conversion code to allow lower-case input System: DOS 3.3	Bob Sander-Cederlof

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Mar 85	19	The Oki 6203 Multiply/Divide Chip	by Bob Sander-Cederlof
		Distributor/Column: Oki	
		Subject: hardware	
		Notes: multiply or divide in a hurry	
Mar 85	20	A Disassembler for the 65816	Bob Sander-Cederlof
		Distributor/Column: listing	
		Key Terms: Woz	
		Subject: disassembler	
		Notes: it's about time someone wrote a dissasembler for them	
		System: 65816 / 65802	
Mar 85	28	Finding Memory Size in ProDOS	Bob Sander-Cederlof
		Subject: tip / utility	
		Notes: correcting/replacing the routine in Beneath Apple ProDOS	
Apr 85	2	Putting S-C Macro on a quikLoader Card	Jan Eugenides
		Distributor/Column: SCRG	
		Subject: hardware / EPROM programmer / technique	
		Notes: writing a "primary" routine	
Apr 85	7	Inside the Apple //c	Little, Gary
		Distributor/Column: Brady	
		Subject: book / reference / technical	
		Notes: what he did for the IIe, he has repeated for the IIc	
		System: IIc	
		Price: $20	
Apr 85	9	Volume Catalog for Corvus and Sider	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: utility	
		Notes: listing the hard disk volumes + the name of the first file	
Apr 85	12	Shrinking Code Inside ProDOS	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: technique	
		Notes: shrinking the routine to convert binary numbers to decimal	
		System: ProDOS	
Apr 85	16	Fast Text Windows for Applesoft	Michael Ching (inspired by
		Distributor/Column: listing	
		Subject: utility	
		Notes: WINDER program rewritten in assembly	
		System: Applesoft	
Apr 85	21	8086/8088 Cross Assembler	Don Rindsberg
		Distributor/Column: The Bit Stop	
		Subject: cross-assembler	
		Notes: generate code (on your Apple) to run on IBM PCs	
		System: 8086/8088	
		Price: $80	
Apr 85	22	Powerful 65816 Board on the Horizon	Troxell and Krol
		Distributor/Column: Micro Magic	
		Key Terms: MAX-816 / MAX-OS	
		Subject: hardware / accelerator / microprocessor	
		Notes: a 65816 running at 6 MHz	
		System: 65816 / MAX-OS	
Apr 85	24	USR Command to List Major Labels Only	Bob Sander-Cederlof
		Subject: utility	
		Notes: to get an overview and to quickly find the section to work on	
Apr 85	27	FCP Sider Hard Disk	rb Bob Sander-Cederlof
		Distributor/Column: First Class Peripherals (a subsidiary of Xebec)	
		Subject: hard disk	
		Notes: The Sider works well, looks good, and is not too noisy (his anyway)	
		System: DOS 3.3 / ProDOS / CP/M / Pascal	
		Price: $695	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
May 85	1	Enhancing Your Apple II and //e	Lancaster, Don
		Key Terms: Castle Wolfenstein	
		Subject: book / technical / tricks, gimmicks, and techniques	
		Notes: includes Tearing Into AppleWriter //e	
May 85	2	New Catalog for DOS 3.3	Robert F. O'Brien
		Distributor/Column: listing	
		Subject: patch	
		Notes: free space, terminate catalog, correct sector count, 2 filenames / line	
		System: DOS 3.3	
May 85	11	80-Column Window Utility for //e and //c	Bill Reed (and Michael Chin
		Distributor/Column: listing	
		Subject: utility	
		Notes: modified to use language card and 80-columns	
		System: //e and //c	
May 85	15	AUTO/MANUAL Toggle Update for S-C Macro Assembler Version 2.0	Robert F. O'Brien
		Distributor/Column: listing	
		Subject: utility / update	
		Notes: toggle the auto-line numbering mode on and off readily	
		System: S-C Assembler	
May 85	18	Apple ProDOS: Advanced Features for Programmers	Little, Gary (rb Bill Morga
		Distributor/Column: Brady	
		Key Terms: Beneath Apple ProDOS	
		Subject: book / technical / operating system / programming	
		Notes: what you need to know to write assembly programs under ProDOS	
		System: ProDOS	
		Price: $18	
May 85	21	Adapting the Output Format of Rak-Ware DISASM	Bob Kovacs
		Subject: technical	
		Notes: how to adapt the output text format to other assemblers	
		System: DISASM	
May 85	23	DATE Command for ProDOS	Bill Morgan
		Distributor/Column: listing	
		Subject: utility	
		Notes: how to set the date without a clock	
		System: ProDOS	
May 85	32	32-bit Values in Version 2.0	Bob S-C
		Subject: technical	
		Notes: working with 32-bits (vs. 16) sometimes a mixed blessing	
Jun 85	1	S-C Macro Assembler ProDOS	
		Distributor/Column: S-C Software	
		Subject: assembler	
		Notes: the new upgrade include block directive and ascii compressed directive	
		System: ProDOS	
		Price: $100	
Jun 85	2	The Boyer-Morris String Search Algorithm	Bob Bernard
		Subject: algorithm / technique	
		Notes: an implementation of the algorithm in assembly	
Jun 85	13	Short Integer Square Root Subroutine	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: technique / routine	
		Notes: probably not "fast", but indeed short	
Jun 85	14	Note on the TXS Instruction in the 65802	Bob Sander-Cederlof (and Sa
		Subject: bug	
		Notes: a quirk of the TXS instruction	
		System: 65802	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Jun 85	16	Interrupt Trace	Charles H. Putney
		Subject: utility / debugger / hardware	
		Notes: helps to find out what happens when Apple hangs	
Jun 85	21	Improving the Single-Byte Converter	Bruce Love
		Distributor/Column: listing	
		Subject: tip / utility	
		Notes: more versions of the single byte converter (Jan 85)	
Jun 85	21	AppleVisions: a glimpse	Bob Bishop and Linda Grossb
		Distributor/Column: Addison-Wesley	
		Subject: book/diskette / computer education	
		Notes: an elementary introduction to Apple Assembly Language	
		Price: $40	
Jun 85	22	Two ROM Sets in One Apple //e	Bob Sander-Cederlof and Don
		Key Terms: upgrade, mouse text	
		Subject: hardware / technique	
		Notes: installing a modified ROM set	
Jun 85	24	Call Utility for Applesoft	David C. Johnson (Applied E
		Distributor/Column: listing	
		Subject: utility	
		Notes: specify register values with your CALL statement	
		System: Applesoft	
Jun 85	28	Some Final DP18 Subroutines	Bob Sander-Cederlof (respon
		Distributor/Column: listing	
		Key Terms: 18-digit arithmetic, double-precision	
		Subject: utility	
		Notes: some subroutines that had been omitted	
		System: Applesoft	
Jul 85	2	Reading DOS 3.3 Disks with ProDOS	Bob Sander-Cederlof
		Distributor/Column: listing	
		Key Terms: CONVERT	
		Subject: utility / technical	
		Notes: load DOS 3.3 files while in PRODOS	
		System: ProDOS SC-Assembler	
Jul 85	16	M-c-T SpeedDemon	rb Bob Sander-Cederlof
		Distributor/Column: Microcomputer Technologies (McT)	
		Key Terms: Titan Accelerator	
		Subject: hardware / technical / accelerator / speed-up card	
		Notes: the 6502 is not slow and how accelerators work	
Jul 85	23	Multi-Level ProDOS Catalog	Bob Sander-Cederlof (based
		Distributor/Column: listing	
		Subject: utility	
		Notes: listing the whole tree of a ProDOS directory	
		System: ProDOS	
Jul 85	30 (	Allow BSAVE to New Non-Binary Files in BASIC.SYSTEM	Mark Jackson
		Distributor/Column: listing	
		Subject: bug / feature / tip / patch	
		Notes: normally BSAVE only works with type binary	
		System: ProDOS	
Jul 85	32	New Catalog Revisited	Robert F. O'Brien
		Distributor/Column: listing	
		Subject: utility	
		Notes: adding a single-key format control feature for the Catalog command	
Aug 85	1	The 65816 continues to make news	
		Subject: microprocessor	
		Notes: two major books will debut, and hardware add-ons	
		System: 65816	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Aug 85	2	//c + Z-RAM = 576K Printer Buffer	David C. Johnson, Applied E
		Distributor/Column: listing	
		Key Terms: auxiliary memory	
		Subject: utility / technical	
		Notes: using the //c as a printer buffer	
		System: //c	
Aug 85	12	How Many Bytes for Each Opcode?	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: utility / object code relocator	
		Notes: the first step to a semi-automatic object code relocation scheme	
Aug 85	17	Generic Conversion Routines	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: utility	
		Notes: converting input decimal characters to/from internal binary form	
Aug 85	22	Wildcard Filename Search	Bob Sander-Cederlof
		Distributor/Column: listing	
		Key Terms: Software Tools	
		Subject: disk utility	
		Notes: compare strings allowing wildcards	
Sep 85	2	Prime Benchmark for 65802	Bob Sander-Cederlof
		Key Terms: Jim Gilbreath, Sieve of Eratosthenes, David Eyes	
		Subject: benchmark	
		Notes: updated version of the 6502 program	
		System: 65802	
Sep 85	11	Put DOS and ProDOS on the Same Disk	Bob Sander-Cederlof
		Distributor/Column: listing	
		Key Terms: VTOC, bit map	
		Subject: utility	
		Notes: disk split purely on a track basis	
		System: DOS 3.3 and ProDOS	
Sep 85	21	Software Sources for 65802 and 65816	by Bob Sander-Cederlof
		Distributor/Column: various	
		Key Terms: Merlin Pro, Lisa 3.2, ORCA/M, Fig-Forth	
		Subject: assembler	
		Notes: assemblers and languages which support the 658xx	
		System: 65802 / 65816	
Sep 85	23	Problems with 65802's in Apple II+	Bob Sander-Cederlof
		Key Terms: timing	
		Subject: upgrade / microprocessor	
		Notes: some Apple II+s will not function properly with the 65802	
		System: II+	
Sep 85	24	Short Binary-to-Decimal Conversion in 65802	Bob Sander-Cederlof and Jim
		Distributor/Column: listing	
		Subject: utility	
		Notes: a tiny loop to convert 16-bit binary numbers to decimal numbers	
		System: 65802	
Oct 85	1	A Rumor Regarding the Next Apple II	
		Subject: rumor / computer	
		Notes: will the next Apple II have a 68000?	
Oct 85	2	ProDOS Snooper	Bob Sander-Cederlof
		Distributor/Column: listing	
		Key Terms: device driver, debugging	
		Subject: utility	
		Notes: a program which will make a list of all calls to the driver	
		System: ProDOS	
Oct 85	6	Different Patch for 65C02 & Old Apples	William O'Ryan Jr.
		Key Terms: timing	
		Subject: hardware	
		Notes: another way to allow the 65C02 to work in an Apple II+	
		System: 65C02, Apple II+	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Oct 85	9	DOS 3.3 RWTS Snooper Subject: utility Notes: the DOS version of the utility (see page 2) System: DOS 3.3	Bob Sander-Cederlof
Oct 85	12	Feedback About the Latest Sieve Key Terms: DTACK Grounded Subject: benchmark Notes: a sieve written in 68000 assembly System: 68000 (Mac)	Peter J. McInerney
Oct 85	14	Paint Yourself into the Corner Subject: puzzle / challenge Notes: write a program to store a constant into all RAM ($0000 - $BFFF)	Adam Levin
Oct 85	15	Index to Apple Assembly Line, volume 5 Subject: index Notes: October 1984 through September 1985	
Oct 85	20	Multiple Column Disassembly Subject: utility / disassembly Notes: disassembly listings into as many as four columns	Adam Levin
Oct 85	29	Apple Manuals from Addison-Wesley Distributor/Column: Addison-Wesley Subject: technical / reference Notes: a listing of available Apple technical manuals	by Bill Morgan
Oct 85	30	Now That You Know Apple Assembly Language Distributor/Column: Redlig Key Terms: Apple Software Protection Digest Subject: book / language / newsletter / copy protection Notes: concentrates on the Apple-specific features of 6502 programming Price: $18	Gilder, Jules (rb Bill Morg
Nov 85	1	quikLoading AppleWorks Distributor/Column: SCRG Subject: hardware / ROM / integrated Notes: AppleWorks in EPROMs	
Nov 85	2 (1	Little DOS RAM Disk in Language Card Distributor/Column: listing Subject: utility / RAM disk Notes: seeting up a RAM disk in the language card System: language card	Bob Sander-Cederlof
Nov 85	11	Kablit Security System Distributor/Column: Secure-It Subject: security Notes: lock down your system with a steel cable	
Nov 85	11	Easier QUIT from PRODOS Subject: tip Notes: allow use of the right arrow during the QUIT call System: ProDOS	Mark Jackson
Nov 85	12	Solutions to Adam Levin's Painting Puzzle Subject: puzzle Notes: solutions by Adam Levin, Bob S-C, David Johnson	
Nov 85	18	Using the Object Vector in S-C Macro Assembler Key Terms: Writable ROM Board Subject: tip Notes: writing object code directly to an EPROM programmer System: S-C Macro Assembler	Bill Morgan
Nov 85	20	Commented Listing of ProDOS QUIT Code Subject: technical / disassembly Notes: $D100-D3FF in tha alternate $D000 bank System: ProDOS	Bob Sander-Cederlof

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Nov 85	28	Two Ways to Merge Fields in a Byte Subject: tip / technique Notes: we can pack more than one data item into the same byte	Bob Sander-Cederlof
Nov 85	32	Comments on O'Ryan's 65C02 mod for Apple II Subject: hardware / technical Notes: recommends switching the 150ns RAM	Jim Sather
Dec 85	1	Little RAM Disk Bug Subject: bug / fix Notes: that TAY should be a TYA	
Dec 85	2	ProDOS MLI Tracing Key Terms: ProDOS Snooper Subject: utility Notes: MLI calls added to the information collected in the trace table System: ProDOS	Ken Kashmarek
Dec 85	8	Ohio Systems Kache Card Distributor/Column: Ohio Systems Subject: disk controller / cache Notes: remembers the most recently read or most frequently read data blocks	rb Bob Sander-Cederlof
Dec 85	10	More Puzzle Solutions Distributor/Column: listing Subject: puzzle / techniques Notes: two more solutions	Bruce Love & Charles Putney
Dec 85	14	S-C Macro Assembler Quick Reference Booklet Subject: reference Notes: new 14-page booklet covering all the new features of version 2.0	
Dec 85	16	Using Pseudo-Variables in Machine Language Distributor/Column: listing Key Terms: Softalk Subject: technique / programming Notes: read TimeMaster, putting time into an Applesoft String System: TimeMaster H.O. card / Applesoft	John Oakey
Dec 85	20	Computing Day of the Week Distributor/Column: listing Subject: utility Notes: an algorithm for deriving the day of the week from the date System: Applesoft / assembly	Bob Sander-Cederlof
Jan 86	2	Convert Lo-Res Pictures to Hi-res Subject: graphics utility	Bob S-C
Jan 86	10	A Question about BRUN Subject: bug	
Jan 86	12	Text File Transfer Using DOS 3.3 File Manager Subject: utility	Bob Potts
Jan 86	18	Fast 6502 & 65802 Multiply Routines Subject: algorithm	by Bob S-C
Jan 86	27	RamWorks Compatible Auxiliary MOVE Routine Subject: utility	Harvey Brown
Jan 86	32	The Origin of the term "6502" Subject: history	Bill Parker
Feb 86	2	WildCAT for DOS 3.3 Subject: utility	Erv Edge
Feb 86	18	Mitsubishi 50740 Series Distributor/Column: Mitsubishi Subject: microprocessor	

Date	Page	Title	Author
Feb 86	20	Faster Cyclic Redundancy Checking Subject: algorithm	Bob S-C
Feb 86	30	DOS Patch: prevent direct commands Subject: utility	Richard Gendron
Mar 86	2	Modifying ProDOS for Non-Standard Disks Subject: technique	Bob S-C
Mar 86	9	Even Faster 6502 16x16 Multiply Subject: technique / algorithm	Bob Boughner
Mar 86	12	Add Smarts to 65816 Dis-Assembler Subject: disassembler	Jim Poponoe
Mar 86	19	Faster 6502 Multiplication Yet Subject: algorithm	Charles Putney
Mar 86	26	TransWarp Distributor/Column: Applied Engineering Subject: speedup card	
Apr 86	2	Tools for Restoring Lost Catalogs Distributor/Column: listing Subject: utility / disk	Sander-Cederlof, Bob
Apr 86	13	Writing Messages in Windows Distributor/Column: listing Subject: utility	Sander-Cederlog, Bob
Apr 86	19	On Dividing a BCD Value by 4 Distributor/Column: listing Subject: tip / programming	Sander-Cederlof, Bob
Apr 86	24	Faster Boot and More Space for DOS 3.3 Distributor/Column: listing Subject: technique	by Bob Sander-Cederlog
Apr 86	32	A Gotcha in the new //c ROMs Distributor/Column: Apple Subject: bug	by Robert H. Bernard
May 86	2	DOS 3.3 for the Unidisk 3.5 (RWTS 3.5) Distributor/Column: listing Subject: operating system / modification	Morgan, Bill
May 86	18	Recovering and Repairing Lost Programs Distributor/Column: listing Subject: utility	Bartlett, Peter
May 86	20	More and Better Division by Seven Distributor/Column: listing Subject: technique / algorithm	Sander-Cederlof and Hackney
Jun 86	2	Using the 65816 Stack Relative Mode Subject: technique / programming	by Bob S-C
Jun 86	7	Fast 16x16 Multiply and Divide in 6502 Distributor/Column: listing Subject: technique	by John Butterill
Jun 86	10	The Real Story about DOS and BRUN Subject: technical	by Bob S-C
Jun 86	13	Toggling Between Two Values Subject: technique	by Eugenides and Sander-Ced

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Jun 86	15	Using Apple's Protocol Converter Subject: technical	by Bob Sander-Cederlof
Jun 86	24	Generalized MLI System Error Handling Subject: technical	by Bob S-C
Jun 86	30	Practical Application of CRC Distributor/Column: listing Subject: technical	Rindsberg, Don
Jul 86	2 (O	New ProDOS Program Selector Distributor/Column: listing Subject: utility	Sander-Cederlof, Bob
Jul 86	19	Using DP18 under ProDOS Subject: utility	by Bill Morgan
Jul 86	21	Booting DOS 3.3. from the UniDisk 3.5 Distributor/Column: listing Subject: utility / DOS	Morgan, Bill
Jul 86	30 (	How Many Cycles Does "BRL" Take? Subject: technical	by Bob Sander-Cederlof
Aug 86	2	Fast Integer Square Roots Distributor/Column: listing Subject: technique	by Bob Sander-Cederlof
Aug 86	11	Updated Memory vs. File Maps for ProDOS Subject: technical	by Bob Sander-Cederlof
Aug 86	13	DUMP Command for DOS 3.3 Distributor/Column: listing Subject: utility	Morgan, Bill
Aug 86	20	Convert Lo-Res Pictures to Double Hi-Res (RGB) Distributor/Column: listing Subject: technique / graphics	by David C. Johnson
Aug 86	27	Another Way Around the BRUN Problem Subject: tip Notes: see Nibble 11/86, p.137	by Anonymous Caller
Aug 86	29	PEA, PEI, PER Instructions in 65802/68816 Subject: technical	by Bob Sander-Cederlof
Sep 86	8	Minuteman 250 UPS Distributor/Column: Minuteman Subject: UPS	
Sep 86	12	More on DOS 3.3 and BRUN Subject: technical	Louis Pitz
Sep 86	22	MLI Calls and the Monitor "L" Command Subject: utility	Woz and Bob S-C
Sep 86	28	Thoughts on the ProDOS Bit Map Subject: technical	Louis Pits
Oct 86	2	Apple IIGS Distributor/Column: Apple Subject: computer / hardware	by Bob S-C (rev.)
Oct 86	9	Convert Hi-Res Pictures to Double Hi-Res Distributor/Column: listing Subject: graphics / technique Notes: AA8612026	by David C. Johnson

Date	Page	Title	Author
Oct 86	14a	Index of volume 4,5, and 6 (Oct 83 thru Sep 86) Subject: index	
Oct 86	15	Moore Screen Tricks Subject: tip	Moore, Robert C.
Oct 86	16	Text Window Inverter Distributor/Column: listing Subject: utility	Sander-Cederlof, Bob
Oct 86	21	Woz's Five Digit Math Puzzler Distributor/Column: listing Subject: strategy / technique Notes: from Dr. Dobbs 9/76	Wozniak and Sander-Cederlof
Oct 86	28	ScreenGen Distributor/Column: Rak-Ware Subject: utility / graphics Notes: transfers graphics from Mac to Apple II	Bob Kovacs
Nov 86	2	Ultra-Fast Integer Square Roots Distributor/Column: listing Subject: technique	Putney and Sander-Cederlof
Nov 86	13	New ProDOS Bug and Fix Distributor/Column: Open-Apple Subject: bug	by Tom Weishaar
Nov 86	15	Timing Apple Programs with another Apple Subject: technique	Bob S-C
Nov 86	19	The IIgs Reference Manuals Distributor/Column: Apple Subject: documentation	
Nov 86	24	IIGS Battery RAM and Clock/Calendar Subject: technical	Bob S-C
Dec 86	1	ProDOS Inside and Out Distributor/Column: TAB Subject: book / technical	Doms and Weishaar
Dec 86	2	Eight Ways to Count Bits in a Byte Subject: technique	Bob S-C
Dec 86	9	Apple IIGS ROM Checksummer Subject: technical	Bob S-C
Dec 86	12	Commented Listing of ProDOS $DE00-DEF2 Subject: technical	Bob S-C
Dec 86	21	Beginning to Peek at the IIGS Monitor Subject: technical	Bob S-C
Dec 86	9	Who Worked on the IIGS? Subject: technical	Bob S-C
Dec 86	27	Demo of Two Simple IIGS Tools Subject: technical	Bob S-C
Dec 86	29	Woz Re-Codes Hi-Res Address Calculations Distributor/Column: Washington Apple Pi Subject: routine	Woz
Jan 87	2	//gs I/O Soft Switches Subject: technical Notes: I/O addresses in the $C000-$C07F range	by Bob Sander-Cederlof

Date	Page	Title	Author
Jan 87	8	Improved & Safer Text I/O Speedup for DOS 3.3 Subject: patch	Louis Pitz
Jan 87	12	Monitor CTRL-Y Command in the IIgs Subject: technical Notes: the //gs does a little more than the older Apples	Bob Sander-Cederlof
Jan 87	18	How to use the USR Command in the S-C Macro-Assembler Subject: technical System: DOS 3.3	Bob Sander-Cederlof
Jan 87	22 (	Little Bugs in ProDOS /RAM Subject: bug	Bob Sander-Cederlof
Jan 87	23	New Features in Apple //gs Monitor Subject: technical / tutorial	Bob Sander-Cederlof
Jan 87	29	New ProDOS Version of S-C XREF Subject: upgrade / utility	Bob Sander-Cederlof
Feb 87	2	Pre-Allocating DOS Files Distributor/Column: listing Subject: technique Notes: speeding up saving of files	Bill Morgan
Feb 87	12	A Smarter Hexadecimal Memory Search Distributor/Column: listing Subject: utility Notes: search for a string of bytes	Bob Sander-Cederlof
Feb 87	19	ProVIEW Subject: utility Notes: a ZAP program System: ProDOS	McComsey, Doug
Feb 87	21	Display the IIgs Tool Tables Distributor/Column: listing Key Terms: map Subject: utility Notes: use the computer to document itself	Bob Sander-Cederlof
Feb 87	25	Display the 65802 Registers Distributor/Column: listing Subject: utility	Bob Boughner
Feb 87	32	ProDOS-based Intelligent Disassembler Distributor/Column: S-C Software Subject: disassembler Notes: distinctly different from the Rak-Ware DISASM	Bob Sander-Cederlof
Mar 87	2	Some Bugs in Apple's ProDOS Version 1.3 Subject: bug Notes: problems with 6502 and the Australia patch	Bob Sander-Cederlof
Mar 87	5	Notes on the IIgs Monitor Subject: tutorial Notes: examples for the U-command (call tools from the monitor)	Sandy Mossberg
Mar 87	8	Beagle Compiler Distributor/Column: Beagle Bros Subject: language	Bird, Alan / rb Bill Morgan
Mar 87	15	Commented Listing of ProDOS, $DEF3-DFE4 Subject: technical	Bob Sander-Cederlof
Mar 87	29	$48 and "G" Strike Again! Subject: bug Notes: there are still problems	Bob Sander-Cederlof

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Mar 87	30	A Bug in FID with 400K Volumes Subject: bug fix / utility System: RAMFactor	Weishaar and Bob S-C
Apr 87	1	Bytestalker Software Analyzer Card Distributor/Column: J. Stuart Enterprises Subject: hardware / debugger Price: $88.50	
Apr 87	2 (1	80-Column Screen Display Subroutine Subject: utility Notes: an update of the message printing routine	Bob Sander-Cederlof
Apr 87	13	Revision to DOS 3.3 for Unidisk 3.5 Subject: bug / patch System: gs	Bill Morgan
Apr 87	14	A PER-Fect Tools for 65816 Position-Independent Code Subject: technique Notes: PER (push effective program counter relative data word onto stack)	Sandy Mossberg
Apr 87	19	Simple Line-Input Subroutine Subject: utility Notes: read a line of text into an assembly program	Bob Sander-Cederlof
Apr 87	22	Friendly Decimal Print Subroutine Subject: utility Notes: convert hex to decimal	Jan Eugenides
Apr 87	26	Note from the American Foundation for the Blind Subject: handicapped Notes: managing a database of experienced individuals	
Apr 87	28	Some Handy MOVE Macros Subject: utility Notes: move groups of bytes in memory	Bob Sander-Cederlof
Apr 87	30	New Supplement to "Beneath Apple ProDOS" Subject: book / technical Notes: new information on ProDOS 1.2 and 1.3	
Apr 87	32	Chessmaster 2000 Subject: strategy Price: $50	
May 87	1	The Chips are Falling Subject: microprocessor Notes: price lowered System: 65816	
May 87	2	A New Pattern Search Monitor Command Distributor/Column: listing Subject: tutorial / utility System: GS	Bob Sander-Cederlof
May 87	13	Reading the IIgs ROMs Subject: technique Notes: read the gs ROM into an EPROM System: GS / SCRG PromGramer	Bob Sander-Cederlof
May 87	14	More About Patching Apple's ProDOS Releases Distributor/Column: listing Subject: bug / operating system / patch System: ProDOS 1.3 / Applesoft	
May 87	18	ABC*DE=FG*HI Puzzle Solved Subject: puzzle Notes: solving the A+ June 1987 "Computer Calisthenics" puzzle System: Applesoft / translated to assembly	Bob Sander-Cederlof

Date	Page	Title	Author
May 87	26 (	Problem with IIgs 3.5"-Drive Firmware	Bob Sander-Cederlof
		Subject: hardware	
		Notes: firmware stomps on four page zero locations ($57, $58, $59, $5A)	
		System: gs	
May 87	29	IIgs Tool Set Version Numbers	Bob Sander-Cederlof
		Distributor/Column: listing	
		Subject: utility	
		Notes: program lists the current version number for all installed tools	
		System: GS	
Jun 87	1	Ask the Guru	Lancaster, Don
		Distributor/Column: Synergetics	
		Subject: book / technical	
		Notes: collection of his Computer Shopper columns	
		System: Apple / AppleWriter / LaserWriter	
		Price: $24.50	
Jun 87	2	Selective CLEAR for Applesoft Variables	Bruce E. Howell
		Distributor/Column: listing	
		Subject: utility	
Jun 87	12	More than just saving the registers	Bob Sander-Cederlof
		Subject: technique / programming	
		Notes: how to write "safe" subroutines	
Jun 87	18	Correction to ProDOS Patcher	Mike McConnell
		Subject: bug	
Jun 87	19	Using the S-C Macro Assembler with an Echo Speech Synthesizer	Rick Hayner
		Subject: speech / hardware / technique	
		Notes: macros for controlling the Echo	
Jun 87	22	Assembly Listings on ProDOS Text Files	John L. Hanna
		Subject: tip	
		Notes: how to direct the assembly listing to a ProDOS text file	
		System: S-C Assembler	
Jun 87	24	Printing a Tiny Address Booklet	Bob Sander-Cederlof
		Subject: tip / address booklet	
Jul 87	2	Clearing Some Mist from Super-HiRes	Bob Sander-Cederlof
		Key Terms: RGB	
		Subject: graphics / technical	
		Notes: Apple's description of Super HiRes is incorrect in some areas	
		System: GS	
Jul 87	10	A+ September Puzzle Solved	Bob Sander-Cederlof
		Subject: puzzle / technique	
Jul 87	15	Apple IIgs Firmware Reference	Apple
		Distributor/Column: Addison-Wesley	
		Subject: book / reference / technical	
		Notes: for those who want to work with system firmware in lieu of toolbox calls	
		System: GS	
		Price: $25	
Jul 87	15	Warning to Smart Port Programmers	Tom Vier
		Subject: tip / bug	
		Notes: a dangerous inconsistency between the Smart Port spec and SCSI port	
		System: Smart Port	
Jul 87	18	Apple IIgs ProDOS-16 Reference	Apple
		Subject: book / reference	
		Notes: for those who wish to understand the technical aspects of the GS O/S	
		System: GS	
		Price: $30	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Jul 87	19	Another ProDOS-8 Bug in the IIgs Subject: bug Notes: indexing problem with the 65816 System: GS	Bob Sander-Cederlof
Jul 87	23	EXEC and INPUT Bug in BASIC.SYSTEM Subject: bug Notes: do not use EXEC to get data for your INPUT statements System: ProDOS / Applesoft	Bob Sander-Cederlof
Jul 87	25	Signed and Unsigned Comparisons Subject: programming / technique Notes: the EASY ways to compare values in the 6502 System: assembly	Bob Sander-Cederlof
Aug 87	1	New Chips for the IIgs Distributor/Column: Apple Subject: firmware Notes: now shipping version 2 of gs system ROM	
Aug 87	1	New Apple Accessories coming soon Distributor/Column: ZIP, MDIdeas, Checkmate Subject: hardware / speed-up card	
Aug 87	2	Using Double Lo-Res Graphics Subject: technique / graphics Notes: lo-res still has some advantages over hi	Bob Sander-Cederlof
Aug 87	11 (	Patch .TF to Assemble System Files Subject: technique Notes: end up with a file type SYS System: S-C Macro Assembler	Bob Sander-Cederlof
Aug 87	15	Viewing Appleworks Word Processor Files Subject: utility Notes: a WISIWYS lister	Bob Sander-Cederlof
Aug 87	20	Modify S-C Macro For Overlay Assembly Subject: patch Notes: make it easy to assemble overlay segments	Bob Sander-Cederlof
Sep 87	1	Exploring the Apple IIgs Distributor/Column: Addison-Wesley Subject: book Notes: using assembler with the gs System: APW assembler	Little, Gary
Sep 87	2 (1	Draw Circles the Fast Way Subject: technique / graphics Notes: Michener's algorithm	Bob Sander-Cederlof
Sep 87	11	Some IIgs Demos Subject: graphics demo	Bob Urschel
Sep 87	17	Warning about 65816 JMP Indirect Subject: bug / tip Notes: which bank do the look in?	Bob Sander-Cederlof
Sep 87	19	Eight Queens Distributor/Column: listing Subject: chess puzzle	Phil Goetz
Sep 87	22	Nifty Sonic Signals Distributor/Column: listing Subject: sound effects	Bob Sander-Cederlof
Sep 87	24	GSBASIC Distributor/Column: Apple Subject: language Notes: apparently based on the Apple /// Business Basic System: gs	

Date	Page	Title	Author
Oct 87	1	Using Laumer Research Full Screen Editor on IIGS Subject: editor / patch	
Oct 87	2	Key-Edit Utility Program for the IIgs Distributor/Column: listing Subject: utility (macro) Notes: recall and edit previously entered commands or program source lines	Bob Boughner
Oct 87	7	Index to volume 7 (October 1986 thru September 1987) Subject: index	
Oct 87	26 (	How to Clear the Back-Up Bit Subject: technique / technical System: ProDOS 8	Paul R. Santa-Maria / Bob S
Oct 87	29 (	Sean Nolan's Proposed Setup File Standard Key Terms: checksum Subject: standard Notes: give ProDOS-8 startup features similar to those in ProDOS-16	
Oct 87	32	ATINIT Subject: tip Notes: before executing SYS file, it looks for ATINIT System: ProDOS-8	
Nov 87	1	Noah Webster and the Bible Subject: religion	
Nov 87	2	(Pretty) Fast DOS Textwriter Distributor/Column: listing Subject: utility Notes: handle text files from machine language	R.R. Bukrey
Nov 87	16	A Strange Decimal-to-Binary Conversion Subject: technique Notes: converts 7-digits in BCD to a 32-bit binary value System: Bendix G-15D Computer	Bob Sander-Cederlof
Nov 87	22 (	Getting a Pointer from a Handle Subject: technique Notes: an improvement over Kashmarek's code for using handles to find memory System: 65816	Bob Sander-Cederlof
Nov 87	25	Converting BCD to Binary, Packing Fields Key Terms: date/time Subject: technique Notes: three different versions of a subroutine	Bob Sander-Cederlof
Dec 87	1 (A	Toward a New Standard Assembly Language Subject: technical Notes: Randy Hyde wants a 65816 assembly language standard	
Dec 87	2	Peeking Inside AppleWorks 1.3 Subject: technique Notes: + subroutine call parameter passage + string handling subroutines adapting AppleWorks subroutines for your own use	Bob Sander-Cederlof
Dec 87	13 (	Screen Dump PLUS! Subject: utility Notes: supports 40/80/Lores capability and both DOS 3.3 and ProDOS	Louis Pitz (and Steve Knous
Dec 87	24 (	It's 1988, and ProDOS Thinks it's 1982 Subject: tip / clock Notes: four ways to get around the problem modifying the clock driver to read the information from the clock card System: TimeMaster	Bob Sander-Cederlof

Date	Page	Title	Author
Jan 88	1	New Subscriptions Rates Subject: economics	
Jan 88	2 (4	Another Peek Inside AppleWorks: interpretive string display subrout Subject: technique Notes: adapting Rupert Lissner's code	Bob Sander-Cederlof
Jan 88	21 (	Overhauling the Program Selector Subject: utility Notes: direct Selector to check only booted drive	Bob Sander-Cederlof
Jan 88	31	Special Version of S-C Macro for Huge Symbol Tables Subject: assembler Notes: version 2.1 puts symbol table into AUX RAM Price: $10 (upgrade)	
Jan 88	32	IIGS Toolbox Reference Distributor/Column: Addison-Wesley Subject: book / reference System: GS Price: $26.95 each	
Feb 88	2 (8	Another Way to Assemble into SYS Files Subject: technique	
Feb 88	2	Keyboard Input Subroutines Distributor/Column: Peeking Inside AppleWorks 1.3, Part 3 Subject: utility Notes: low-level keyboard input code	Bob Sander-Cederlof
Feb 88	20	Percentage Printer Subject: utility Notes: print the ratio M/N as a percentage followed by "%"	Bob Sander-Cederlof
Feb 88	24	Another Quick Two-Digit Decimal Printer Subject: tip Notes: convert binary to decimal and print	Bob Sander-Cederlof
Feb 88	24	New Versions of S-C Word Processor Distributor/Column: S-C Software Subject: word processor Price: $50	Bob Sander-Cederlof, Bob De
Feb 88	27	Printing the ProDOS Date and Time Subject: technique Notes: in the form DD-MMM-YY (with three-letter month abbreviation)	Bob Sander-Cederlof
Mar 88	1	Something Personal Subject: milestone Notes: Bob's age becomes a perfect square for the seventh time	Bob Sander-Cederlof
Mar 88	2	Application Overlay Manager Distributor/Column: Peeking Inside AppleWorks 1.3, Part 4 Subject: technique Notes: how AppleWorks uses overlays	Bob Sander-Cederlof
Mar 88	19	Dissecting AppleWorks SEG.M0 and SEG.M1 Files Subject: technical Notes: analyzing file headers	Bob Sander-Cederlof
Mar 88	24	Backup/Restore for RamFactor DOS Partition Subject: utility Notes: format, backup, restore	Bob Sander-Cederlof
Apr 88	1	A Visit to Phoenix (AZ Apple Fiesta) Key Terms: Don Lancaster Subject: technology Notes: spending a day with Bill Mensch (designer of the 65816) Randy Hyde's conference on a new standard for 6502 family assembly	

Apple Assembly Line (1985-1988) - Kula Index

Date	Page	Title	Author
Apr 88	2	Menu Display and Selection Subroutines	Bob Sander-Cederlof
		Distributor/Column: Peeking Inside AppleWorks 1.3, Part 5	
		Subject: technique	
Apr 88	18	ProDOS File Transformer	Bob Sander-Cederlof
		Subject: utility	
		Notes: converting S-C source code into ordinary text files	
Apr 88	29 (	Modify CATALOG to Show All AUXTYPEs	Bob Sander-Cederlof
		Subject: patch	
Apr 88	31	BLOADing Directories	Bob Sander-Cederlof
		Subject: technique	
		Notes: but can't BSAVE	
May 88	1	The Last Issue	Bob Sander-Cederlof
		Subject: newsletter	
		Notes: now working full-time for Applied Engineering	
May 88	3 (4	About S-C Macro Cross Assemblers	Bob Sander-Cederlof
		Subject: cross assembler	
May 88	4	Peeking Inside AppleWorks 1.3	
		Subject: technical	
		Notes: an index to pieces of AppleWorks code	
May 88	20	Klaxon Sound Effect	Robert C. Moore
		Subject: sound effect	
		Notes: dee-daw-dee-daw	
May 88	21	AppleWorks Segment Functions	Steve Stephenson
		Subject: technical	
		Notes: what each of the segments in SEG.M0 and SEG.M1 does a program to break out the segments from the SEG.M0 and SEG.M1 files	
May 88	25	New Version 1.2 of BASIC.SYSTEM / ProDOS-8 version 1.6	Bob Sander-Cederlof
		Subject: language	
		Notes: a disappointing 24 bytes changed, only 7 significant	
May 88	28	The Apple IIx Wish-O-Gram	Jeff Creamer
		Subject: computer	
		Notes: I want horsepower	