

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 85	7	USING AND CHOOSING HOME FINANCE PROGRAMS Distributor/Column: VARIOUS Subject: HOME FINANCE	BY NORMAN J. WOOD
Jan 85	16	A Clock for the Iic Distributor/Column: listing Subject: clock / technical Notes: clock routine for the Iic (assembly listing) System: Apple Iic	Fretwell and Little
Jan 85	26	PRODOS PROSE FROM A PRODOS PRO Distributor/Column: APPLE Subject: OPERATING SYSTEM	KASHMAREK, KEN
Jan 85	33	MenuMaker Distributor/Column: listing Subject: utility Notes: standard file menu program System: Applesoft	Ken Watters
Jan 85	36	Reviving Applewriter programs Distributor/Column: Apple Doctor Subject: tip Notes: use a disk zap program System: Applewriter	Bruce F. Field
Jan 85	37	Understanding the Applesoft WAIT command Distributor/Column: Apple Doctor Subject: tip / programming System: Applesoft	Bruce F. Field
Jan 85	38	SERIAL INPUT THRU GAME PORT Subject: TECHNIQUE	FIELD, BRUCE
Jan 85	40	Appleworks Audio Alteration Distributor/Column: Write-Apple Subject: tip Notes: changing the beep routine System: Appleworks	Steven Weyrich
Jan 85	41	BELLS ARE RINGING Distributor/Column: VARIOUS Subject: SPEECH SYNTHESIS Notes: SEE 8409	BY CLAY RUTH
Feb 85	10	Road Maps to Apple II Disks: DOS 3.3, CP/M, Pascal, and ProDOS Subject: technical / operating system Notes: How each operating system stores information on a disk	Skillman C. Kim Hunter
Feb 85	22	Extended Help for ProDOS Distributor/Column: listing Subject: utility Notes: Adding invaluable commands to ProDOS System: ProDOS / Applesoft	Ken Kashmarek
Feb 85	32	Data Analysis -- Part 9: Analysis of Variance Distributor/Column: THE Spreadsheet Sheet Subject: tutorial / statistics / spreadsheet Notes: continuing our series on spreadsheet statistics System: THE Spreadsheet	Jeffrey M. Jacques, Ph.D.
Feb 85	39	IIE 80-COLUMNS WITH MODEM Distributor/Column: A.P.P.L.E. DOCTOR Subject: TECHNIQUE / COMMUNICATIONS	SEWALL, MURPHY
Feb 85	40	Problem Paddles Distributor/Column: Apple Doctor Subject: paddles / maintenance Notes: readout from paddles is unstable	Bruce F. Field

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Feb 85	40	Game Port Connections Distributor/Column: Apple Doctor Subject: tip Notes: differences between II+ and IIE gameports System: Apple II+ / Apple IIE	Bruce F. Field
Feb 85	41	MICROSOFT BASIC GET COMMAND (MAC) Distributor/Column: MICROSOFT Subject: PROGRAMMING Notes: a strange formula associated with the GET command	REDHED, DAVE (Something Ove
Feb 85	42	Neurotic Computer? Distributor/Column: listing Subject: tip Notes: does your Apple IIc have an identity crisis? System: IIC	Bob Bragner (Write-Apple)
Feb 85	42	Premium Softcard Trade-Offs Distributor/Column: Microsoft Subject: hardware Notes: considerations before purchasing or upgrading System: CP/M	James A. Nelson (Write-Appl
Mar 85	10	A NOVICE PROGRAMMER'S VIEW OF MODULA-2 Distributor/Column: VOLITION SYSTEMS / AND OTHERS Subject: LANGUAGE / MODULA-2 Notes: will this new language make Pascal obsolete?	BY JOHN CRAIG
Mar 85	18	TAMING I/O IN MODULA-2 Subject: TECHNIQUE / LANGUAGE Notes: practical applications of Modula	BY RICK SUTCLIFFE
Mar 85	23	PUF WITH PRODOS Distributor/Column: CALL-APPLE Subject: UTILITY Notes: implementing the PRINT USING command in ProDOS	FRETWELL, CECIL (AND CRAIG
Mar 85	25	Data Analysis #10 - ANOVA, continued Distributor/Column: THE Spreadsheet Sheet Subject: spreadsheet / statistics Notes: advanced statistics on your Spreadsheet	Jeffrey M. Jacques
Mar 85	31	Fat-Mac Memory Management / handy utilities / adding a personal tou Distributor/Column: MacTips Subject: tip Notes: first in a series of valuable pointers for getting the most of your Mac System: Mac	Ken Watters
Mar 85	33	ANDY HERTZFELD: A PERSONALITY BEHIND THE MAC Distributor/Column: APPLE Subject: INTERVIEW Notes: a master programmer's views on the past, present, future of Apple System: Mac	HERTZFELD, ANDY (WITH DON E
Mar 85	34	Questions & Answers about Lisa and Macintosh Distributor/Column: Something Over 32 Bits Subject: computer Notes: inside information on developments in the Macintosh family System: Lisa / Mac	Dave Redhed
Mar 85	37	The New Apple Processors Distributor/Column: Apple Doctor Subject: microprocessor System: 65C02 / 65802 / 65816	Bruce F. Field
Mar 85	38	Booting ProDOS on a Franklin Distributor/Column: Apple-Doctor (Bruce F. Field) Subject: operating system System: ProDOS / Franklin	Bongers, Stout

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Mar 85	39	Apples and Video Tape Recorders Distributor/Column: Apple-Doctor Subject: monitor Notes: use your VCR as an RF modulator	
Mar 85	41	Joystick Sound Effects Distributor/Column: Write-Apple Subject: sound effects System: assembly	Steven Russell (age 13)
Mar 85	42	Softcard Compatibility with the Iie Distributor/Column: Write-Apple Subject: operating system Notes: some SoftCards don't work with the Iie (try Orbital Systems Z-Card) System: CP/M / Iie	Dave Huffman
Mar 85	42	SOURCEROR AND THE IIE UPDATE Distributor/Column: ROGER WAGNER PUBLISHING Subject: UTILITY / UPDATE / bug Notes: fixing a Iie incompatibility	BREDON, GLEN
Apr 85	10	A Tale of Two Computers Key Terms: Eliza Subject: computer Notes: I mean, I never knew a computer could get so EMOTIONAL System: Apple / Mac	Ken Watters
Apr 85	14	WINDOWS: A PROGRAM FOR THE APPLE II Distributor/Column: LISTING Subject: UTILITY Notes: open windows with an "opening window" effect System: S-C Macro Assembler	EUGENIDES, JAN G.
Apr 85	18	POKE 7,0: AN INTELLIGENT RESET TRAP Distributor/Column: LISTING Subject: UTILITY Notes: Getting Control over that "nasty" RESET key	MOSSBERG, SANDY
Apr 85	22	Practical Guide to AppleWorks -- part 1 Subject: tutorial / integrated Notes: touching some of the introductory bases System: AppleWorks	Joyce Conklin & Peter Weigl
Apr 85	27	THE WRITE CHOICE Distributor/Column: ROGER WAGNER Subject: WORD PROCESSING / Education / TYPING Notes: A low-cost multi-featured word processor Price: \$45	WAGNER, PETERSON, BRITT (rb)
Apr 85	29	THUNDERSCAN Distributor/Column: THUNDERWARE Subject: Digitizer / GRAPHICS / HARDWARE Notes: giving eyes to the Mac through and imagewriter System: MAC Price: \$229	HERTZFELD, ANDY (rb Storrie)
Apr 85	31	Bundle and Bozo Bits Distributor/Column: Macintips Subject: tip / technical Notes: set the bundle bit with Fedit to show icons System: Mac	Ken Watters
Apr 85	31	MAC-APPLE II WEDDING Distributor/Column: Macintips Key Terms: RS-232 Subject: TECHNIQUE / COMMUNICATIONS Notes: connect the two machines together	WATTERS, KEN

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Apr 85	33	Is the Mac XL really a Lisa? Distributor/Column: Something Over 32 Bits Key Terms: Mark Twain Subject: computer Notes: if you call a tail a leg, how many legs does a dog have? System: Mac	Dave Redhed
Apr 85	34	The Complete Book of Lisa Subject: book Notes: covers Lisa in depth with emphasis on understanding its applications System: Lisa	Schmucker, Kurt
Apr 85	35	Sticky String Input Distributor/Column: Apple Doctor Subject: tip Notes: preface each line with a quotation mark System: ProDOS / Applesoft	
Apr 85	36	Equation Input Distributor/Column: Apple Doctor Subject: tip Notes: converting user's INPUT from a string to an equation System: Applesoft	Bongers, Cornelis
Apr 85	37	Finding Time Distributor/Column: Apple Doctor Subject: tip / clock Notes: modifying ProDOS to work with your (non Thunder)clock System: ProDOS	
Apr 85	38	GARBAGE COLLECTION BUG Distributor/Column: Apple Doctor Subject: bug Notes: a bug in the Fast Garbage Collection code (in All About Applesoft)	
Apr 85	39	MORE ON COMPUTER AS CALCULATOR Distributor/Column: LISTING Subject: TECHNIQUE Notes: an update to the 11/84 article	MCDANIELS, ELLIS
Apr 85	41	INTERFACING APPLEWORKS AND PROWRITER Distributor/Column: APPLE Key Terms: printer codes Subject: INTEGRATED / TECHNIQUE Notes: how to print superscripts and subscripts System: AppleWorks	GREATHOUSE, BUTCH
Apr 85	43	OPENAPPLEWRITER - PRODOS Distributor/Column: CONDICOM Key Terms: program editing Subject: WORD PROCESSING / UTILITY Notes: switch between AppleWriter and Applesoft without disk involvement System: ProDOS Price: \$29 (\$39 for DOS 3.3 version)	
Apr 85	44	MACNOSY Distributor/Column: JASIK DESIGNS Subject: DISASSEMBLER Notes: recover source code System: MAC	JASIK, STEVE
May 85	6	Pity the Dealer? Distributor/Column: Planting a Seed Key Terms: customer support Subject: merchandising Notes: discount selling methods are killing the storefront dealers	Peter C. Weiglin

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 85	10	A DIFFERENT WAY TO TYPE (DVORAK) Distributor/Column: LISTING Key Terms: QWERTY Subject: HARDWARE Notes: unlocking the Dvorak keyboard in your IIE System: IIE	DEWILDE, GREG
May 85	16	THE APPLE IIE ENHANCEMENTS Distributor/Column: APPLE Key Terms: Mouse Text Subject: HARDWARE / ROM / upgrade Notes: making the IIE more compatible with the IIC	BY KEN KASHMAREK
May 85	18	THE SECRETS OF APPLEWRITER'S WPL Distributor/Column: APPLE Subject: tutorial / WORD PROCESSOR / language Notes: using WPL to increase the power of AppleWriter System: AppleWriter	BY RICHARD LOGGINS
May 85	21	Data Analysis #11 - Multiple Regression Distributor/Column: THE Spreadsheet Sheet Subject: statistics Notes: concluding the series on data analysis	Jeffrey M. Jacques
May 85	30	THE SIDER Distributor/Column: FIRST CLASS PERIPHERALS Subject: HARD DISK Notes: mega-memory at an affordable price Price: \$695	rb Charlie Stillman & Butch
May 85	32	MAC SPELL RIGHT Distributor/Column: ASSIMILATION Subject: SPELLING CHECKER / Thesaurus Notes: accessible from MacWrite System: MacWrite 3.3 or later	rb Douglas Fraser
May 85	33	I LIKE IKE-ONS Distributor/Column: MacinTips Key Terms: RMOVER, FEDIT, RESEDIT Subject: TECHNIQUE Notes: create your own Mac screen icons "from scratch" System: MAC	BY KEN WATTERS
May 85	36	What's Happening with the Lisa ToolKit? Distributor/Column: Apple Key Terms: support Subject: programming Notes: The Toolkit Users' Group is not disbanding System: Lisa	Dave Redhed
May 85	37	SMALLTALK ON THE MAC Distributor/Column: APPLE Subject: LANGUAGE Notes: Apple is selling it but not supporting it System: Mac / 1 MB / hard disk Price: \$45	
May 85	39	Accessing Text Files from BASIC Distributor/Column: Apple Doctor Subject: technique Notes: reading text files System: Applesoft	Bruce F. Field
May 85	39	Intelligent(?) Calendar Distributor/Column: Apple Doctor Subject: clock Notes: how did it figure out the year? System: ThunderClock / ProDOS	Bruce F. Field

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 85	42	Jogger Distributor/Column: Parsons Software Subject: health Notes: soft(shoe)ware for joggers	Parsons, Jim
May 85	42	Cold ProDOS Problem Distributor/Column: Letters Subject: bug / quirk Notes: clearing the hi-res screen System: ProDOS	Mark Cunningham
May 85	43	APPLEWORKS ON A II+ Distributor/Column: CHECKMATE TECHNOLOGY Subject: INTEGRATED / MODIFICATION Notes: WORKS WITH MULTIVIEW 80/160 VIDEO CARD System: II+	
Jun 85	12	Practical Guide to AppleWorks -- Part 2 Distributor/Column: Practical Guide to AppleWorks Subject: tutorial / spreadsheet Notes: a spreadsheet gradebook template System: AppleWorks	Joyce Conklin & Peter Weigl
Jun 85	19	Improving the Gradebook Distributor/Column: THE Spreadsheet Sheet Subject: education / spreadsheet / tutorial Notes: using lesser known functions to improve the gradebook System: THE Spreadsheet	Jeffrey M. Jacques, Ph.D
Jun 85	23	Getting Ready for Screen Animation Distributor/Column: The Graphics Toolkit - Part 5 Key Terms: bitblt, shape table Subject: graphics / animation / tutorial Notes: developing graphics routines that would be useful for animation System: Applesoft	Randi J. Rost
Jun 85	30	A BUG IN THE PRODOS CHAIN COMMAND Distributor/Column: APPLE Subject: DOS / bug Notes: tracking down and fixing System: ProDOS	BY PETER MEYER
Jun 85	31	MODULA-2 ON THE MAC Distributor/Column: MODULA CORP Subject: LANGUAGE Notes: for a low-cost programming language, MacModula-2 is a super deal System: Mac Price: \$150	rb KEITH BECHARD
Jun 85	35	A BLACK BOX Distributor/Column: Macintips Key Terms: serial Subject: COMMUNICATIONS / APPLE II TO MAC Notes: connecting the Mac to an Apple II System: Apple / Mac	KEN WATTERS
Jun 85	38	Mac XL cancelled -- why? and what now? Distributor/Column: Something Over 32 Bits Subject: computer System: Mac XL	Dave Redhed
Jun 85	40	Hello Dates Distributor/Column: Apple Doctor Subject: tip Notes: preserving variables across programs	Bruce F. Field
Jun 85	40	Booting From Drive 2 Distributor/Column: Apple Doctor Subject: technique / hardware Notes: how to boot a diskette from drive 2 (modify DOS or the interface card)	Bruce F. Field

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jun 85	41	MOCKINGBOARD SPEECH UPDATE Distributor/Column: Sweet Micro Systems Subject: SPEECH Notes: the Apple Answering System modified to work with the Mockingboard C System: Mockingboard C	RUTH, CLAY
Jun 85	42	Passing Through Pascal Distributor/Column: Letters Subject: technique / programming Notes: quit the editor, clear the workfile, and return to the editor System: Apple Pascal	Craig Gilchrist
Jun 85	48	MACDRAW Distributor/Column: APPLE Subject: ARCHITECTURE / GRAPHICS Notes: a structured graphics application System: Mac Price: \$195	
Jul 85	5	Is the "Personal Computer Market" in bad shape? Distributor/Column: Planting a Seed Subject: industry Notes: current trends in the computer market	Peter C. Weiglin
Jul 85	12	APPLE COMPUTER INC.: AN INSIDE VIEW Distributor/Column: APPLE Key Terms: reorganization Subject: COMPANY Notes: If my boss calls, get his name	BY QUINCY FLUGELHEIT
Jul 85	15	FLOATING POINT ARITHMETIC IN APPLESOFT BASIC Distributor/Column: APPLE Subject: LANGUAGE / math Notes: little know irregularities in calculation accuracy System: Applesoft	BY JAMES W. THOMAS
Jul 85	19	SANE PROGRAMMING ON THE APPLE Distributor/Column: APPLE Subject: PROGRAMMING Notes: a numeric computation package for demanding mathematicians Price: \$35	BY J.B. KOONS
Jul 85	21	The Secrets of Apple Writer's WPL - part 2 Subject: tutorial / language Notes: using variables and subroutines to access files System: Apple Writer / WPL	Richard Loggins
Jul 85	25	THE Spreadsheet as Cabinetmaker Subject: furniture / template Notes: building structures with THE Spreadsheet -- literally System: THE Spreadsheet	John Geddis
Jul 85	31	Adjustable Planning Calendar Subject: planning / scheduling / calendar Notes: a program that creates customized date blocks System: Applesoft	Harold Shuckhart
Jul 85	34	Mac Up and Down Distributor/Column: MacinTips Key Terms: BINHEX, XMODEM, Red Ryder Subject: communications Notes: telecommunicating Macintosh style System: Mac	Ken Watters
Jul 85	36	AN APPLE-TO-MAC CONNECTION Distributor/Column: LISTING Key Terms: game port Subject: COMMUNICATIONS Notes: bare-bones method of transferring data from Apple II to Mac System: Mac / Apple	EUGENIDES, JAN

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jul 85	41	MOUSETEXT -- APPLE'S LAST WORD Distributor/Column: APPLE Subject: ROM ENHANCEMENT / history Notes: it's one (1) word, Ken. Running Man to run away	BY BRUCE TOGNAZZINI, Apple
Jul 85	41	FastFind Bug Fix Distributor/Column: Write-Apple Subject: utility / bug Notes: getting FastFind to run on Apples with the old monitor ROM	Phil Bryan and Jim Hammond
Jul 85	42	Pascal INVERSE Tester Distributor/Column: Letters Subject: utility Notes: find control characters to turn INVERSE display ON and OFF System: Apple Pascal	Keith A. Van Wagner II
Jul 85	44	ScreenWriter IIe Improvements Distributor/Column: Letters Subject: word processor / tip Notes: defining macros to replace ESC sequences System: ScreenWriter	Erik Kauppi
Jul 85	46	PLUS-WORKS (APPLEWORKS ON THE II AND II+) Distributor/Column: NORWICH DATA Subject: INTEGRATED	
Aug 85	6	The Home Non-Users Distributor/Column: Planting a Seed Subject: industry Notes: where's the home computer market?	Peter C. Weiglin
Aug 85	12	A Sporting Application Distributor/Column: THE Spreadsheet Sheet Subject: spreadsheet / sports / template Notes: organizing your baseball team's records with THE Spreadsheet System: THE Spreadsheet	Jeffrey M. Jacques
Aug 85	19	PRODOS CHR\$(4) PROCESSING IN ASSEMBLY LANGUAGE Distributor/Column: APPLE Subject: TECHNIQUE / PROGRAMMING Notes: technical insights about BASIC.SYSTEM System: ProDOS	BY CECIL FRETWELL
Aug 85	29	Some Data Base Wrinkles Distributor/Column: Practical Guide to AppleWorks Subject: tutorial / data management Notes: creating a customized data base System: AppleWorks	Peter C. Weiglin & Joyce Co
Aug 85	32	UNIPRINT Distributor/Column: VIDEX Subject: PRINTER INTERFACE Notes: a low-cost, multi-featured printer card for the Apple II Price: \$89	rb Philip Chien
Aug 85	34	ENSEMBLE Distributor/Column: HAYDEN Subject: INTEGRATED Notes: an integrated versatile data base program System: MAC Price: \$300	rb Michael & Lisa Storrie-L
Aug 85	37	LisaTalk Teleconference Distributor/Column: Something Over 32 Bits Key Terms: ToolKit User's Group Subject: conference Notes: an electronic discussion / Redhed's last column System: Lisa	by Dave Redhed

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Aug 85	45	MacTutor Distributor/Column: Write-Apple Subject: magazine Notes: no-fluff, no-nonsense, no-vapor journal dedicated to Mac programming System: Mac	Dave Kelly
Aug 85	45	EXPANDING MACWRITE'S WINDOW Distributor/Column: APPLE Subject: TECHNIQUE / MACWRITE Notes: using ResEdit to modify MacWrite's default window System: Mac	Dan Paymar
Aug 85	46	ProDOS B and E Parameters Distributor/Column: Write-Apple Subject: technical / operating system Notes: "problem" with BSAVE is not a bug, but a feature System: ProDOS	Cecil Fretwell
Aug 85	49	Icon Switcher Distributor/Column: PBI Subject: utility Notes: change, design, or switch icons System: Mac Price: \$20	
Oct 85	6	The Legal Remedies Distributor/Column: Planting A Seed Key Terms: customer support Subject: law Notes: what recourse for unhappy customers?	Peter C. Weiglin
Oct 85	10	What's in a Cover Date? Distributor/Column: Call-Apple Subject: publication Notes: Call-Apple skips November	Don Elman
Oct 85	14	Speeding Along with the Mach 3.5, Part I: the card and the user Distributor/Column: APPLE Co-op Subject: hardware / speed-up card Notes: the joys of Apple II acceleration System: Apple Price: \$210	rb David A. Lingwood
Oct 85	18	BASIC to Text Converter Key Terms: EXEC Subject: utility / programming Notes: Edit your BASIC strings with a word processor System: Applesoft	Bob Luster
May 08	22	ProDOS Memory Buffer Management Subject: technique Notes: utilizing unused memory with ProDOS System: ProDOS	Cecil Fretwell
Oct 85	29	Hi-Res Packer Distributor/Column: listing Subject: utility / graphics Notes: squeeze more pictures on your disk / includes references System: Apple	Ackerman, Michael
Oct 85	33	Practical Guide to AppleWorks -- Part 4 Distributor/Column: Practical Guide to AppleWorks Subject: tutorial / home finance Notes: it's all in the balance (a checkbook template) System: AppleWorks	Peter C. Weiglin & Joyce Co
Oct 85	37	Quality Standards for Apple II Peripheral Boards Distributor/Column: Checkmate Technology Subject: hardware / quality control Notes: what to consider before you fill your slots	by Andrew P. Niemic (presid

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Oct 85	39	Jazz: a closer look Distributor/Column: Lotus Subject: integrated Notes: after the initial hype, will the melody linger on? System: Mac Price: \$595	rb Michael & Lisa Storrie-L
Oct 85	44	Time To Re-Boot Subject: technical Notes: how Applesoft is stored in memory System: Applesoft	
Oct 85	45	Users' Comments About Apple Computer Distributor/Column: Write-Apple Subject: company / user support	Suzanne M. Thomas / Hank Mc
Oct 85	46	Setting Your Hi-Res Screen Distributor/Column: Letters Subject: tip Notes: response to "Cold ProDOS Problem", May 1985 System: Apple	by Stowe Keller
Oct 85	46	MacPascal: Good News and Bad News Distributor/Column: Apple Subject: language Notes: where has all the memory gone? System: Mac	by Steven C. Leach
Nov 85	12	Setting ProDOS's Time and Date Distributor/Column: listing Subject: utility / technical / operating system Notes: inner secrets of the ProDOS clock/calendar function System: ProDOS	by Wes Felty
Nov 85	18	Date Computer Distributor/Column: listing Subject: technique / calendar Notes: transforming your Apple into a perpetual calendar System: clock	Cecil Fretwell
Nov 85	22	An Error Filter, of the Clean Error Act of 1985 Distributor/Column: listing Key Terms: &ONERR Subject: utility / programming Notes: assembly language routine that helps trap time-wasting pollutants System: Applesoft / assembly	Ken Kashmarek
Nov 85	28	Speeding Along with the Mach 3.5; part 2: Theory and Optimization Subject: speed-up card / technical Notes: how the reserve cache can save you time (if not money)	Dr. David A. Lingwood
Nov 85	35	SuperCalc 3A Distributor/Column: Sorcim Subject: integrated / spreadsheet Notes: a third generation spreadsheet System: 128K Price: \$195	rb Jeffrey M. Jacques, Ph.D
Nov 85	40	Excel (the new king of spreadsheets) Distributor/Column: MicroSoft Subject: spreadsheet Notes: can it outplay Jazz? System: Mac Price: \$395	rb Richard P. Loggins
Nov 85	43	AppleWorks and the 80-column card Distributor/Column: Apple Doctor Key Terms: MMU Subject: bug System: AppleWorks	Bruce F. Field

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Nov 85	43	Null Characters with AppleWriter Distributor/Column: Apple Doctor Subject: technique / printing Notes: patch to imbed null characters using AppleWriter System: AppleWriter	Royal, R.A.
Nov 85	44	Backups Within AppleSoft (a COPY command) Distributor/Column: CompuServe Subject: utility Notes: making data file backups System: ProDOS	
Nov 85	44	Using Atari Joysticks Distributor/Column: Wico Subject: joystick Notes: using Atari joysticks with Apples Price: \$20	John Willis
Nov 85	44	Reading Keys From Applesoft Distributor/Column: Apple Doctor Key Terms: GET, PEEK Subject: technique / programming Notes: reading the Apple keys System: Applesoft	
Nov 85	45	New 65C02 Opcodes Distributor/Column: Apple Doctor Key Terms: opcode Subject: technical Notes: list of new instructions with opcodes and addressing modes System: 65C02	Bruce F. Field
Nov 85	46	POKE 33,33 Distributor/Column: Apple Doctor Subject: technique Notes: listing to printer in 80 columns	
Nov 85	47	Hardware versus SANE Distributor/Column: Write-Apple Subject: benchmark / floating-point arithmetic Notes: SANE vs. the 68000 System: 68000	Thomas Wieland
Nov 85	48	Spreadsheet Word Puzzles Distributor/Column: Write-Apple Subject: technique / game Notes: using a spreadsheet to generate a word puzzle System: THE Spreadsheet	Tom Yelland
Nov 85	49	ProDOS Chain bug Distributor/Column: Write-Apple Subject: tip / bug / fix Notes: sometimes the program will hang after being CHAINED System: ProDOS	Oliver Mayes
Dec 85	12	Selling Your Soul to Maxwell's Demon Distributor/Column: APPLE Co-op Subject: debugger Notes: make a date with this devil of an assembly language programming aid System: Big Mac (Merlin) Price: \$35	rb Larry Neibauer
Dec 85	20	Tax Templates Distributor/Column: THE Spreadsheet Sheet Subject: spreadsheet / tax Notes: help make end-of-the-year tax planning decisions System: THE Spreadsheet	Jeffrey M. Jacques

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Dec 85	30	ProDOS Input Anything Routine Distributor/Column: listing Subject: utility Notes: improving BASIC INPUT input ProDOS System: ProDOS / Applesoft	Kashmarek, Ken
Dec 85	32	The Graphics Toolkit Part 6 Distributor/Column: listing Key Terms: block shapes, DRAW, XDRAW Subject: tutorial / graphics Notes: moving screen images System: assembly	Randi J. Rost
Dec 85	40	Making (Sound) Waves with Macintosh Key Terms: Fourier Analysis, The Harmonic Series, timbre Subject: technique / sound / music Notes: turn your Mac into a music synthesizer with this BASIC program System: BASIC	William K. Dolen
Dec 85	46	The ABC's of BBS's Part 3: the user Subject: communications Notes: tips for getting started on the electronic BBS circuit	by Philip Chien
Dec 85	50	Mouse Calc Distributor/Column: International Solutions Subject: spreadsheet Notes: A Mac-like spreadsheet for the Apple II System: Apple / mouse Price: \$150	rb Steve Ross
Dec 85	56	Willy Byte in the Digital Dimension Distributor/Column: Data Trek Subject: arcade / education Notes: an enjoyable way to learn what goes on inside your computer System: supports Mockingboard Price: \$40	rb Clay Ruth
Dec 85	58	An AppleWorks Quirk Distributor/Column: Apple Doctor Subject: bug / technique Notes: a bug with the find function System: AppleWorks	
Dec 85	58	Converting To Dvorak Distributor/Column: Apple Doctor Subject: hardware / keyboard Notes: converting the standard IIE keyboard from QWERTY to Dvorak System: Apple IIE	
Dec 85	65	16-bit 6502's Distributor/Column: Western Design Center Subject: microprocessor Notes: enhanced versions of the 6502 announced	
Dec 85	70	Where Are Those Entry Points? Distributor/Column: Write Apple Subject: reference / documentation Notes: there is no official list of the ROM entry points	by Dennis Doms
Dec 85	72	RND (Random) Comments Distributor/Column: Write Apple Key Terms: USRND Subject: technique / random numbers Notes: seeding the random number generator System: Applesoft	William Jackson
Jan 86	12	The Graphics Toolkit - part 7 Distributor/Column: listing Subject: tutorial / graphics System: Apple	by Randi J. Rost

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 86	16	ProDOS MLI & Assembler Macros Distributor/Column: listing Subject: technical / Prodos System: Apple	by Ken Kashmarek
Jan 86	24	Accessing DOS 3.3 Disks from Pascal Distributor/Column: listing Subject: utility / disk System: Apple	Howerton, Christopher
Jan 86	36	A Lab Instrument Interface Subject: hardware System: Apple	Gregg & Macero
Jan 86	42	Inverse Catalog Printer Distributor/Column: listing Subject: utility System: Apple	Golding, Val
Jan 86	43	Blankenship BASIC Distributor/Column: Blankenship & Associates Subject: language Notes: reviewed by Stan Goering System: Apple Price: \$25	Blankenship, John
Jan 86	48	Numeric Names in DOS 3.3 Distributor/Column: A.P.P.L.E. Doctor Subject: utility / patch System: Apple	by Bruce F. Field
Jan 86	49	Pin Assignments on the ImageWriter Distributor/Column: Write-A.P.P.L.E. Subject: hardware information System: Apple	by John Earnest and Ken Wat
Jan 86	51	ProDOS Time Bomb Disarmed Distributor/Column: Write-A.P.P.L.E. Subject: hint / ProDOS System: Apple	by Clay Ruth
Feb 86	15	Your Well Tempered Music Synthesizer Distributor/Column: listing Subject: music / theory System: Mac	Dolen, William M.
Feb 86	18	Tax Sheltered Savings Benefits Distributor/Column: listing Subject: tax	Hansel, Gerhald
Feb 86	22	ProDOS Undelete Distributor/Column: listing Subject: utility / disk Notes: cf Mossberg	Felty, Wes
Feb 86	30	ProDOS MLI & Assembler Macros - part 2 Distributor/Column: listing Subject: technical	Kashmarek, Ken
Feb 86	42	A Lab Instrument Interface -- part 2 Subject: hardware	Gregg & Macero
Feb 86	46	Assembly Cookbook for the Apple II/Iie Distributor/Column: Howard W. Sams Subject: book / assembly language	Lancaster, Don / rb Mike Ch
Feb 86	52	A/S List Protection Distributor/Column: APPLE Doctor Subject: technique / copy-protection	by Bruce F. Field

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Mar 86	12	Sound Tester -- part 1 Distributor/Column: listing Subject: sound effects	Sachs, Ed
Mar 86	30	ZBasic Distributor/Column: Zedcor Subject: language Notes: sa CA 4/86, p.55 System: Apple (with 128K)	
Mar 86	34a	1986 Report, Election and Ballot Distributor/Column: A.P.P.L.E. Subject: company	
Mar 86	39	Screen Control Distributor/Column: listing Subject: utility	Fretwell, Cecil
Mar 86	44	PFS: Write to ProDOS Ascii Converter Distributor/Column: listing Subject: utility	Felty, Wes
Mar 86	48	ProDOS MLI & Assembler Macros -- part 3 Distributor/Column: listing Subject: technical	by Ken Kashmarek
Mar 86	60	MacroDisk Distributor/Column: MacroDisk Subject: utility / word processing Notes: enhances AppleWriter	
Apr 86	8	Master Cat Distributor/Column: listing Subject: utility System: ProDOS	Sparks, David G.
Apr 86	15	Double Hi-Res LogoMaker Distributor/Column: listing Subject: utility / printer Price: Apple IIe/IIc (128K)	Anthony, Scott
Apr 86	26	Silicon Intelligence Distributor/Column: various Subject: book / AI	Lombardi and Lombardi
Apr 86	28	Sound Tester - part 2 Distributor/Column: listing Subject: sound generation	Sachs, Ed
Apr 86	42	Locking Out Control-C Distributor/Column: listing Subject: technique	Apfelstadt, Mark
Apr 86	44	Deep in the Heart of Taxes Distributor/Column: listing Subject: tax / technique System: spreadsheet	Sachs, Ed
Apr 86	54	A.P.E. Distributor/Column: A.P.P.L.E. Subject: utility / programming	
Apr 86	57	ThinkWorks Distributor/Column: MegaHaus Subject: outline processor Notes: press release	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 86	12	Quicksilver Distributor/Column: listing Subject: graphics / utility	Schmidt, Jenny
May 86	20	Apple's New Unidisk Distributor/Column: Apple Subject: technique / disk drive	by Cecil Fretwell
May 86	25	Issues in Using Spreadsheets: part 1 Subject: technique / spreadsheet	by Jeffrey M. Jacques
May 86	30	Pascal 1.3 Distributor/Column: Apple Subject: language Notes: more CA 8607046	rev. by Donald J. Geenen
May 86	46	Treesearch for Pascal 1.3 Distributor/Column: listing Subject: utility System: Apple Pascal 1.3	Sparks, David G.
Jun 86	14	The Apple II-LaserWriter Connection Distributor/Column: listing Subject: technique System: assembly	by Scott Anthony
Jun 86	30	PFS: File to ProDOS Ascii Converter Distributor/Column: listing Subject: utility	Felty, Wes
Jun 86	34	Computereyes Distributor/Column: Digital Vision Subject: digitizer	
Jun 86	46	Issues in Using Spreadsheets -- not for beginners only: part 2 Subject: technique / spreadsheet	by Jeffrey M. Jacques
Jun 86	60	Views from a "Loyal Oppositionist" Distributor/Column: Write Apple Subject: commentary	by Larry Brockman
Jul 86	11	ProDOS Wedge Distributor/Column: listing Subject: technical / utility	Nolan, Sean
Jul 86	15	Slot Saver Clock Driver Distributor/Column: listing Subject: utility	by Ken Kashmarek
Jul 86	20	Issues In Using Spreadsheets: part 3 Subject: technique / spreadsheet	by Jeffrey M. Jacques
Jul 86	26	Kyan Pascal Distributor/Column: Kyan Subject: language	rev. by Michael Fink
Jul 86	36	Silicon Intelligence Subject: AI / language Notes: from MA 5/86	by Lombardi and Lombardi
Jul 86	50	Developer Disk #2 Distributor/Column: Nite Owl Subject: utility / ProDOS Notes: announcement	
Jul 86	51	Upgrade Your II to a Iie Distributor/Column: Impossibilities Subject: hardware Notes: announcement System: enhanced Iie	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Aug 86	11	Simulating a Simulation Language Distributor/Column: listing Subject: language (GPSS) System: Applesoft	Crossman, Craig
Aug 86	20	Getting AppleWorks and the Spreadsheet to Behave - part 1 Subject: technique	by Jeffrey M. Jacques
Aug 86	24	Using 3.5" Disks to Backup DOS 3.3. Floppies Distributor/Column: listing Subject: utility / disk System: Merlin.Pro	Nolan, Sean
Aug 86	35	Smart.Bar Distributor/Column: listing Subject: utility	Knight, Ralph
Aug 86	38	DOS Enhancer Distributor/Column: listing Subject: utility	Weber, Wesley
Aug 86	42	Creating an Expert Assistant Distributor/Column: Silicon Intelligence Subject: AI	by Michael and Lisa Storrie
Aug 86	53	HiRes Graphics and Animation Using Assembly Language Distributor/Column: Hayden Subject: book / graphics	Malkin, Leonard I., Ph.D.
Aug 86	57	Columbia Kermit Distributor/Column: PDS Subject: communications Notes: unclassified System: Apple II	
Sep 86	11	In the Beginning There Were User Groups Key Terms: Dial-A-Joke Subject: history Notes: also in MA	by Steve Wozniak
Sep 86	17	Cauzin Softstrip Distributor/Column: Cauzin Subject: hardware	
Sep 86	22	The 65816 Microprocessor -- views of an assembly language programme Subject: technical	by Sean Nolan
Sep 86	34	Pascal Assembly Language Subject: tutorial / language	by David G. Sparks
Sep 86	42	Creating an Expert Assistant - part II Distributor/Column: Silicon Intelligence Subject: AI	by the Storrie-Lombardis
Sep 86	48	FTL Modula-2 Distributor/Column: Workman & Associates Subject: language	
Oct 86	11	Apple IIGS Distributor/Column: Apple Subject: computer	by Don Elman
Oct 86	19	Under the Hood of the Apple IIGS Distributor/Column: Apple Subject: computer / hardware	by Rick Sutcliffe
Oct 86	22	And then there was Apple Key Terms: piracy Subject: company / history	by Steve Wozniak (with Jack

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Oct 86	30	AppleWorks Master Catalog Distributor/Column: listing Subject: utility	Schack and Sparks
Oct 86	45	Working with business equations Distributor/Column: Upgrading Your Spreadsheet Subject: business System: spreadsheet	Jeffrey Jacques
Oct 86	56	Mail Merge with AppleWorks (and AutoWorks) Subject: utility	Charles H. Newby
Nov 86	13	Simple Worms Distributor/Column: listing Subject: programming	Buckley and Hauser
Nov 86	20	Quiz Maker Distributor/Column: listing Subject: education	Harold Shuckhart
Nov 86	24	Breaking the RAMDisk Barrier Subject: technique	Edd Marquardt
Nov 86	27	Resetting RESET Subject: technique	Cecil Fretwell
Nov 86	39	The Graphics Toolkit - part 8 Distributor/Column: The Graphics Toolkit Subject: tutorial / graphics	Randi Rost
Nov 86	43	An Alphabetical Pascal Directory Distributor/Column: listing Subject: utility System: Apple Pascal	Donald J. Geenen
Nov 86	49	The Real World of Expert Systems Distributor/Column: Silicon Intelligence Subject: AI System: ExperOPS5	by the Storrie-Lombardis
Nov 86	56	Missing AppleWriter Characters Distributor/Column: Write-Apple Subject: tip Notes: problems occurs only in DOS 3.3	by Robert Flickinger
Dec 86	11	The Apple Writer Solution Subject: word processing / publishing Notes: superb graphics System: PostScript, Apple Writer, Laser Writer	Don Lancaster
Dec 86	18	A IIGS Developer's Conference Subject: conference / programming Notes: what can developers expect in the future System: GS	Keith Nemitz
Dec 86	21	Let's Start Publishing Usable Assembly Language Code Subject: technique / programming Notes: a set of guidelines	Bob Bishop
Dec 86	26	The Unidisk 3.5 Distributor/Column: Apple Subject: disk drive / technical Notes: sounds from within	Ken Kashmarek
Dec 86	29	The Penultimate Quit Call Subject: utility Notes: a new ProDOS exit routine	Rick Sutcliffe

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Dec 86	36	AppleWorks Rank Ordering Subject: technique / education Notes: rank ordering students System: AppleWorks spreadsheet	Harold Shuckhart
Dec 86	41	Working With Macros within Spreadsheets: part 1 Subject: tutorial Notes: using macros when changing spreadsheet templates	Jeffrey Jacques
Dec 86	47	Non-Animation Shape Tables Distributor/Column: The Graphics Toolkit: Part 9 Subject: tutorial / graphics Notes: final installment	Randi Rost
Dec 86	52	The Envoy Board Distributor/Column: ASKY Subject: hardware Notes: convert DOS 3.3 and ProDOS files to MS-DOS	rb Bruce F. Field
Dec 86	52	Change the Default Values on the IIc Serial Port Distributor/Column: Apple Doctor Subject: utility	Sewell and Helm
Dec 86	54	Status Checker Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: 3.5 drive bug	Bruce Field
Dec 86	55	Using the PKASO Superfont option Distributor/Column: Write-A.P.P.L.E. Subject: technique / printer interface	Larry Neibauer
Jan 87	11	Telecommunications Software Review Distributor/Column: various Subject: communications Notes: Commworks, Modem Magician, MouseTalk, Point-to-Point, ProCom-A	by Cecil Fretwell
Jan 87	22	Part 1: A "Dazzling" Start Distributor/Column: Modular Assembly Language Programming Subject: programming System: EDASM	Bob Bishop
Jan 87	26	Using EDASM to Generate Relocatable Code Subject: technical	Bob Bishop
Jan 87	45	SmallTalk Part 1 Distributor/Column: Silicon Intelligence Subject: AI / tutorial / language System: Smalltalk-80 (Mac)	by Michael & Lisa Storrie-L
Jan 87	49	IIGS Developer's Conference: the 2nd day Subject: conference System: GS	by Keith Nemitz
Jan 87	53	Dr. Alan Kay at the Pacific Science Center Subject: profile / education	by Keith Nemitz
Jan 87	55	Observing the GS Distributor/Column: Write-Apple Subject: tip Notes: sa NB 8702092	Sam L. Pemberton, Jr.
Feb 87	11	Three New Approaches to Word Processing Distributor/Column: various Subject: word processor Notes: MultiScribe, the Bard's Pro-Am, MouseWrite	Marc Apfelstadt

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Feb 87	15	From IIE to IIGs and Beyond Subject: computer / technical Notes: first impressions of the GS	Cecil Fretwell
Feb 87	22	A Musical Fanfare Distributor/Column: Modular Assembly Language Part II Subject: music Notes: play 3-note chords	Bob Bishop
Feb 87	30	A COPY Command for ProDOS Distributor/Column: listing (assembly) Subject: utility	Steven Ohmert
Feb 87	44	Working With Macros, part II Distributor/Column: The Spreadsheet Sheet Subject: technique Notes: service record and accounts receivable	Jeffrey Jacques
Feb 87	53	Please Pass the Graphics Subject: graphics / technique Notes: passing graphics between the Mac and the II System: RLE	Ken Watters
Feb 87	55	Apple-IBM Conversions Distributor/Column: A.P.P.L.E. Doctor Subject: utility Notes: MatchPoint and Envoy	Bruce Field
Feb 87	56	Automatic Program Execution Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: making a HELLO program for DOS 3.3, ProDOS, Pascal	Bruce Field
Mar 87	10	Comparing Three CAD Programs: CADDRAW, discoverCAD, MATC-CAD Distributor/Column: Kitchen Sink, Hearlihy, MATC-CAD Subject: CAD	by Lee Webster
Mar 87	18	A Simple Hardware Interface to the Standard Apple II I/O Slot Subject: homebrew / technique	Peter Baum
Mar 87	22	The Curtain Rises Distributor/Column: Modular Assembly Language Programming, Part III Subject: utility / graphics / special effects Notes: bringing up the hi-res secondary screen	Bob Bishop
Mar 87	28	Wiretapping into BASIC Subject: utility Notes: record everything that is printed out to the screen onto a file	Sean Nolan
Mar 87	34	Sensible Writer / Bank Street Writer Plus / Manuscript Manager Distributor/Column: Further Adventures in Word Processing Subject: word processor Notes: Word Perfect, AppleWorks, AppleWorks Add-Ons	Marc Apfelstadt
Mar 87	42	Apple IIGS Compatibility Subject: computer Notes: solving compability problems	Enrico Colombini
Mar 87	44	ProDOS Memory Management Subject: technique Notes: independent of Basic.System	Dick Winslow
Mar 87	47	Tracking Investments Distributor/Column: The Spreadsheet Sheet Subject: investing	Jeffrey M. Jacques
Mar 87	52	Smalltalk and Object Logo Distributor/Column: Silicon Intelligence Subject: language / AI	Michael and Lisa Storrie-Lo

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Mar 87	56,	Losing Data on Track 0 Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: it happens in DOS 3.3 also. Try changing your power supply	
Mar 87	56	Should I turn off my printer? Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: leave it on	
Mar 87	57	Shift Key Mod Distributor/Column: A.P.P.L.E. Doctor Subject: tip / hardware	
Mar 87	58	65816/65C02 BRK Distributor/Column: A.P.P.L.E. Doctor Subject: tip	
Mar 87	58	Different 3.5" Drives Distributor/Column: A.P.P.L.E. Doctor Subject: disk drive / technical	
Mar 87	58	new Iie motherboard Distributor/Column: A.P.P.L.E. Doctor Subject: hardware	
Apr 87	10	Apple IIGS Graphics Hardware Subject: technical Notes: an "inside" look by a member of the GS design team	Laurence A. Thompson
Apr 87	14	Visualizer Distributor/Column: PBI Subject: business graphics System: GS Price: \$100	rb Jeffrey M. Jacques
Apr 87	18	Lo-Res Kaleidoscopes Distributor/Column: listing Subject: graphics / demo Notes: create animated kaleidoscopes	Lucia Grossberger and Bob B
Apr 87	24	Anatomy of the IIGS System Disk Subject: technical Notes: contents, layout, and organization of the ProDOS 16 system disk	Ken Kashmarek
Apr 87	33	TML Pascal Conference Distributor/Column: GENie Subject: language Notes: a question and answer session	
Apr 87	37	Memory Expansion in the Apple II Subject: upgrade / technical Notes: advantages and disadvantages	Peter & Allen Baum
Apr 87	40	A Hi-Res Movie Distributor/Column: Modular Assembly Language Programming, Part IV Subject: utility Notes: access 64K auxiliary memory	The "Pack-Man" (Bob Bishop)
Apr 87	46	Object Logo: a place where words and numbers finally meet Distributor/Column: Silicon Intelligence Subject: language / AI Notes: a look at its special features	Michael & Lisa Storrie-Lomb
Apr 87	49	Magnetic Interference Distributor/Column: A.P.P.L.E. Doctor Subject: tip	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Apr 87	49	Compiler Problems Distributor/Column: A.P.P.L.E. Doctor Subject: tip	
Apr 87	51	AppleWorld '87 Key Terms: Steve Wozniak and education Subject: trade show Notes: is there still room for the Apple II?	Kathryn Hallgrimson Suther
May 87	10	You II Can Be Musical! Distributor/Column: various Key Terms: MIDI Subject: music Notes: Music Construction Set, The Music Studio, Music Printer, Musician's Toolbox	Marc Apfelstadt
May 87	15	Peeking at and Poking Around the Apple IIGS Monitor Subject: tutorial / technical Notes: includes list of system monitor routines System: GS	Michael Fischer
May 87	22	A Simple Periodic Interrupt Card Key Terms: Jeeves Subject: hardware / homebrew Notes: the daisy chain protocol	Peter & Allen Baum
May 87	28	the Apple IIGS Distributor/Column: Modular Assembly Language Programming, part V Subject: technique / computer	Bob Bishop
May 87	37	Cellular Automata on the IIGS using TML Pascal Distributor/Column: listing Subject: simulation	Enrico Colombini
May 87	42	Comparison of Three CAD Programs: part 2 Distributor/Column: various Subject: CAD Notes: CADDRAW, discoverCAD, MATC-CAD	rb Lee Webster
May 87	48	AppleWorld '87: a continual commitment Subject: conference Notes: featuring the Apple II panel update	by Kathryn Hallgrimson & La
May 87	54	Detecting Printer Status Distributor/Column: A.P.P.L.E. Doctor Subject: technique	
May 87	58	Disk Problems, The Menu, Cauzin, Print Shop, PinPoint Distributor/Column: Write-A.P.P.L.E. Subject: tip	Scotty Shipley
Jun 87	10	A Review of APW and TML Pascal Distributor/Column: Apple / TML Subject: language / programming environment Notes: APW: fast and powerful / TML: good, but not for the novice System: GS, 1MB and 2 800K drives Price: \$100 / \$125	rb Rick Sutcliffe
Jun 87	19	Announcing the TERC BASIC Enhancements Distributor/Column: shareware Subject: language Notes: Applesoft enhancement package System: Apple Price: \$4 / \$15	Sean Nolan
Jun 87	24	An Overview of Apple Desktop Bus (ADB) Distributor/Column: Apple Subject: technical / hardware System: GS	Peter & Allen Baum

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jun 87	28	Peeking and Poking Around the Apple IIGS Monitor Pt. 2 Subject: tutorial Notes: how to use the monitor to do various functions System: GS	Michael Fischer
Jun 87	34	A "Long Real" Data Type for Apple Pascal Subject: technique / utility / programming Notes: new data type provides 36 digits of precision System: Apple Pascal 1.3	Donald Geenen
Jun 87	42	Fun With the Cassette Ports Distributor/Column: Modular Assembly Language Programming Subject: tutorial / programming Notes: Speech Recording / Lie Detector / Low-Cost LAN System: Apple	Bob Bishop (The PACK Man)
Jun 87	47	The Ethical Subroutine: "Put 'Em Back the Way They Was" Subject: tutorial / programming Notes: with power comes responsibility System: GS (65816)	David G. Sparks
Jun 87	50	Still More Adventures In Word Processing: part 3 Distributor/Column: various Subject: word processor Notes: Word Perfect, Multiscribe, Writer's Choice, HomeWord Plus, etc. System: GS / IIE and IIC	rb Marc Apfelstadt
Jun 87	55	Invoking an EXEC File Distributor/Column: APPLE Doctor Subject: tip Notes: making a STARTUP EXEC file System: ProDOS	Paul Lucas
Jun 87	55,	ProDOS 8 version 1.3 - 1.4 Distributor/Column: Apple Subject: operating system / bug / patch Notes: quirks/bugs of the new versions / patch for the track 0 bug System: ProDOS	
Jun 87	56	Identifying Applesoft or Integer BASIC in ROM Distributor/Column: APPLE Doctor Subject: tip System: Apple II / II+	
Jun 87	57	Testing the Auxiliary Memory Distributor/Column: listing (public domain) Subject: utility System: Apple IIE / IIC (uses MouseText)	Bredon, Glen
Jun 87	57	CAT SCAN simplified Distributor/Column: listing Subject: utility Notes: loads file names into an Applesoft array System: now compatible with the Beagle compiler	Bill Parker
Jun 87	58	Apple THREE News & Views Distributor/Column: Apple THREE Group International Subject: publication Notes: monthly newsletter System: Apple /// Price: \$15	H. Joseph Dobrowolski
Jun 87	58	Saturn 128K Board Distributor/Column: Saturn Subject: hardware / memory expansion Notes: a third memory expansion protocol	rb Roger L. Cole, P.E.

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jun 87	60	Instant Pascal 1.5 Distributor/Column: Apple Subject: Language System: Apple	
Jun 87	61	New Books for the GS Distributor/Column: Osborne/McGraw-Hill / Addison-Wesley Subject: book / reference System: GS	
Jul 87	10	VisionPlus Card / ComputerEyes/2 Distributor/Column: AST / Digital Vision Subject: digitizer Notes: digitize a video tape image and save it to disk in "Screen" format System: GS Price: \$395 / \$250	rb Ken Watters
Jul 87	13	DOS 3.3.5 Distributor/Column: listing / shareware Subject: operating system / patch Notes: patch DOS 3.3 to work on SmartPort devices (e.g. 800K drives) System: GS Price: \$10	Rick Sutcliffe
Jul 87	23	After the Keys Go Down Subject: technical / keyboard Notes: all about keyboard plus a remote keyboard emulator System: IIe / IIc / IIGS	Peter & Allen Baum
Jul 87	26	Modules, Merlin, Menus... Distributor/Column: Modular Assembly Language Programming Subject: programming / technique Notes: reading paddles / using Merlin instead of EDASM / Of Mice and Menus	Bob Bishop
Jul 87	36	Making the GS Desktop Easier to Reach Distributor/Column: listing Subject: tip Notes: bypass the Program Launcher and execute Desktop1 System: GS	Patrick Gormley
Jul 87	40	Like Clockwork Subject: clock / technique Notes: accessing the ProDOS clock	Val J. Golding
Jul 87	42	AppleWorks Utility Distributor/Column: listing (AppleSoft and assembly) Subject: utility Notes: tools to catalog the disk and protect files System: AppleWorks	Cecil Fretwell
Jul 87	52	Numerical Analysis or how to get real work out of your life Distributor/Column: Silicon Intelligence Subject: AI Notes: solving a differential equation using numerical analysis System: MS-Basic 3.0 (Mac)	Lisa & Michael Storrie-Lomb
Jul 87	55	Using AppleWriter on the IIGs Subject: word processor / patch Notes: fixing the print bug on the IIGS System: GS	Don Lancaster
Jul 87	56	Activision software on the IIGS Distributor/Column: APPLE Doctor Subject: bug Notes: has problems if certain interface cards are installed System: GS	Terrell Gibbs

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jul 87	56	Attaching disk drives to the IIGS Distributor/Column: APPLE Doctor Subject: disk drive / hardware System: GS	
Jul 87	57	the "Pink Fringe" problem Distributor/Column: APPLE Doctor Subject: bug Notes: pink fringes appear on the IIGS desktop, fixed in new motherboard System: GS	
Jul 87	57	Super Hi-Res (SHR) Graphics Distributor/Column: APPLE Doctor Subject: graphics / technical Notes: what are they? and how can you convert to them? System: GS	Robert C. Platt / Harper, J
Jul 87	58	Visualizer IIGS Review Rebuttal Distributor/Column: PBI Subject: business graphics System: GS	Eric Wong (PBI) / Jeffrey M
Jul 87	60	Printing Multiple Columns in AppleWorks Subject: technique System: AppleWorks	Christopher Van Buren (Excl
Aug 87	10	GS Memory Cards Compared Distributor/Column: various Subject: memory expansion Notes: the pros and cons of six memory cards for the GS System: GS	rb Sean Nolan
Aug 87	18	Generating Mandelbrot Images Distributor/Column: Modular Assembly Language Programming Subject: fractal Notes: an explanation of fractals and how to generate them	Bob Bishop
Aug 87	25	The Apple IIGS Slots Distributor/Column: Apple Subject: technical / hardware Notes: a description of slot signals and the difference between the II & GS System: GS	Peter and Allen Baum with J
Aug 87	30	Freeware: a definition of Public Domain Software Subject: software / freeware Notes: PDS revealed -- what's available and where to get it?	by Doug Trueman
Aug 87	31	Le Grayhaven Cookbook Distributor/Column: Big Red Computer Club Key Terms: recipe Subject: home	Tanstaaf1
Aug 87	32	Mono Hi-Res: another new GS display mode Subject: technique Notes: another graphic option besides Super Hi-Res System: GS	Laurence A. Thompson
Aug 87	36	GS Key Locations Key Terms: KEYMODREG Subject: technical / tip Notes: An Apple /// feature available on the GS	Val Golding
Aug 87	39	Beginner's Woes Subject: training Notes: Billy Chipp's letter addressed in a creative, informative manner	by Cecil Fretwell
Aug 87	43	A Real-Time Application Distributor/Column: The Spreadsheet Sheet Subject: spreadsheet / bowling / template	Jeffrey M. Jacques

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Aug 87	48	Edit Your INPUT Subject: utility Notes: get a professional feel and look to your programs System: Microsparc Assembler	Jenny Schmidt
Aug 87	56	What is a desk accessory? Distributor/Column: Apple Doctor Subject: desk accessory System: GS	Platt and Field
Aug 87	56	Patching FID to work with more than two drives in a slot Distributor/Column: Apple Doctor Subject: utility / patch	Vier, Tom
Aug 87	56	Converting AppleWriter and Visifile data to the Macintosh Distributor/Column: Apple Doctor Subject: data conversion Notes: use the Apple File Exchange	
Aug 87	57	Recovering and Returning to AppleWorks Distributor/Column: Apple Doctor Subject: tip / rescue System: AppleWorks	
Aug 87	58	Daisy Chaining Distributor/Column: Write-Apple Subject: technical System: GS	Ray Montagne, Apple IIGS So
Aug 87	59	Input Almost Anything (on the GS too) Distributor/Column: Write-Apple Subject: utility Notes: the routine now "universalized" to the GS System: GS	Cecil Fretwell
Sep 87	10	Take the Plunge! Subject: communication / tip Notes: how to get started	by Leon Raesley
Sep 87	14	To BBS or Not to BBS Subject: communications Notes: different types of BBSs	by Val J. Golding
Sep 87	17	GENie and AppleLink Subject: communications service	by Laurel Pagliaro
Sep 87	18	ISDN: 64,000 baud over home telephone lines Key Terms: network Subject: communications / technical	by Marc Bernstein
Sep 87	20	PC Pursuit Subject: communications Notes: unlimited connect time for \$25 per month	by Shari Carnahan
Sep 87	22	The Fast Apple IIGS Part I: why 2.8MHz? Subject: hardware / technical	by Laurence A. Thompson
Sep 87	26	Speaking of Hardware Subject: technical Notes: memory expansion, 6502 false-read problem, ProDOS Slot 3 disk recognizer	Peter & Allen Baum
Sep 87	36	Getting Started with the Apple IIGS Subject: tutorial Notes: setting the control panel, display options, RAM disk, setting up disks to use with GS, SYSTEM.DISK, ProSel System: GS	Wesley R. Felty

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Sep 87	45	DOS 3.3.5 Revisited Subject: operating system (patch) Notes: answering questions	Rick Sutcliffe
Sep 87	47	Enter the Perception Distributor/Column: Silicon Intelligence Subject: AI Notes: parallel processing in intelligent systems	Michael and Lisa Storrie-Lo
Sep 87	50	Some GS Graphics Modules Distributor/Column: Modular Assembly Language Subject: graphics Notes: intializing the screen, generating Mandelbrot images System: super hi-res	Bob Bishop
Sep 87	55	RAM disks / IIGS Startup Disk / Apple IIe enhancement Distributor/Column: A.P.P.L.E. Doctor Subject: technical	Robert C. Platt and Bruce F
Sep 87	57	IIGS Cursor / Modify Beep Distributor/Column: Write-A.P.P.L.E. Subject: tip Notes: use CTRL^	Wes Felty / M.F. Gillis
Sep 87	57	Eliza in XPL Subject: AI Price: \$5.00	Paymar, Dan
Oct 87	10	Graphics Spectacular! Five Graphics Packages for the Apple IIGS Distributor/Column: various Subject: graphics Notes: PaintWorks+, 816/Paint, Deluxe Paint II, Draw Plus, Top Draw System: GS	rb David G. Sparks
Oct 87	18	Graphics Fundamentals Subject: technique Notes: scaling objects to fill a window, avoiding distortion, labeling pictures drawing circles	Scott Smith
Oct 87	26	The Fast Apple IIGS, Part 2 Subject: hardware / technical Notes: historical GS architecture / RAM refresh, Mega II synchronizing memory expansion slot, the FPI	Laurence A. Thompson
Oct 87	30	Speaking of Hardware Subject: hardware / technical Notes: Apple II floppy disk drives	Peter and Allen Baum
Oct 87	52	Getting Data Into The Spreadsheet: A ZBASIC Solution Key Terms: DIF Subject: utility System: ZBasic	Jeffrey M. Jacques
Oct 87	61	Let's Get A Handle On This Memory Subject: tutorial Notes: the GS memory manager deals with handles and pointers	Ken Kashmarek
Oct 87	64	One Hundred Times Faster Key Terms: algorithm Subject: technique Notes: a lot can be done by "simply" thinking about the problem System: APW C	Enrico Colombini
Oct 87	74	Playing With the Apple IIGS Color Registers Distributor/Column: Modular Assembly Language Programming Subject: technical Notes: interesting effects achieved by changing the Super Hi-Res color registers	Bob Bishop

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Oct 87	79	ProDOS Patch Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: make sure you have version 2.0	
Oct 87	79	Shift Key Modification Distributor/Column: A.P.P.L.E. Doctor Subject: tip	
Oct 87	80	Apple DeskTop Bus Distributor/Column: A.P.P.L.E. Doctor Subject: hardware	
Oct 87	80	Accessing the Mouse from Applesoft Distributor/Column: A.P.P.L.E. Doctor Subject: technique	
Oct 87	80	Proper Care Procedures Distributor/Column: A.P.P.L.E. Doctor Subject: maintenance	
Oct 87	80	Booting / ProDOS Books / Surge Protector / DOS 3.3, Eamon on the GS Distributor/Column: A.P.P.L.E. Doctor Subject: tip	
Oct 87	80	Identifying Your Apple Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: ID bytes (\$FBB3, \$FBC0, \$FBBF)	
Oct 87	82	DSK need not follow REL Distributor/Column: Write-A.P.P.L.E. Subject: tip	Norman Dodge
Oct 87	82	A New Machine Distributor/Column: Write-A.P.P.L.E. Subject: computer Notes: what we "need"	Art Radcliffe
Oct 87	84	Zip Chip Distributor/Column: ZIP Technology Subject: hardware / speedup chip	
Nov 87	11	Applefest Key Terms: piracy Subject: trade show Notes: some enlightening quotes by Del Yocam and Steve Wozniak	by Kathryn Hallgrimson Suth
Nov 87	12	Maniac Mansion Distributor/Column: Lucasfilm Subject: adventure (graphics) System: 128K	
Nov 87	12	Vegas Video Poker / Beating the House at Black Jack Distributor/Column: Applications Plus Subject: strategy / card	
Nov 87	13	Softdisk / Computer Game Forum Distributor/Column: Softdisk / Golden Empire Subject: disk magazine / magazine	rb Val J. Golding
Nov 87	14	SETUP.SYSTEM (a proposed startup file standard) Distributor/Column: listing Subject: utility Notes: install customizing routines upon bootup System: ProDOS-8	Sean Nolan

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Nov 87	24	GS Memory Cards - A Follow Up Distributor/Column: various Subject: memory expansion Notes: MemorySaver (Checkmate Technology)	by Sean Nolan
Nov 87	26	A User's Guide to Floppy and Hard Disk Drives Distributor/Column: Speaking of Hardware Subject: disk drive / technical	Peter and Allen Baum
Nov 87	32	Memory Shadowing Distributor/Column: The Fast IIGS Subject: technique System: GS	Laurence A. Thompson
Nov 87	34	Getting Inside the Apple IIGS: a hobbyist's tour Subject: technical / computer Notes: an examination of the internal operations of the GS System: GS	Wesley Felty
Nov 87	42	Softswitch Distributor/Column: Roger Wagner Subject: utility Notes: a program switcher System: GS	by Jeffrey M. Jacques
Nov 87	45	Oscilloscope Subroutines for the GS Distributor/Column: Modular Assembly Language Programming Subject: science	Bob Bishop
Nov 87	54	Setting the Standards Subject: standards Notes: a report on a panel discussion sponsored by APDA	by Charles Stillman, Ph.D.
Nov 87	58	The Difference between the IIGS Finder and Desktop program Distributor/Column: A.P.P.L.E. Doctor Subject: operating environment	
Nov 87	58	Testing for the IIC ROM update Distributor/Column: A.P.P.L.E. Doctor Subject: technique	
Nov 87	59	Transferring from AppleWorks to Apple Writer Distributor/Column: A.P.P.L.E. Doctor Subject: technique / word processing	
Nov 87	58	Identifying SmartPort Devices Distributor/Column: listing Subject: utility Notes: the code for ejecting a 3.5" disk is same as formatting SCSI hard disk	Tom Vier
Nov 87	60	AppleWorks IIGS and the 3.5" Drive Distributor/Column: Write-A.P.P.L.E. Subject: bug / tip	Larry Niebur and Cecil Fret
Dec 87	10	The Apple Assembly Language Landscape Distributor/Column: various Key Terms: 65816, ProDOS-16 Subject: programming / assembler Notes: the Apple assemblers and the new assemblers (Merlin-16 and APW)	Sean Nolan
Dec 87	23	Run Your Own Train / Design Your Own Train Distributor/Column: Abracadabra Subject: hobby	rb Val J. Golding
Dec 87	24	Legacy of the Ancients Distributor/Column: Electronic Arts Subject: fantasy Notes: dozens of games in one Price: \$40	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Dec 87	25	Ski Crazed Distributor/Column: Baudville Subject: arcade / sports Price: \$20	
Dec 87	25	Aliens Distributor/Column: Activision Subject: arcade Notes: multi-level game which gets easier System: \$36	
Dec 87	25	First Encounter Distributor/Column: Magazines on Disk Subject: logic Notes: 48 arcade-type logic tests Price: \$30	Besnard, John
Dec 87	25	Halls of Montezuma Distributor/Column: Strategic Studies Group Subject: war Notes: a battle history of the Marines Price: \$40	
Dec 87	27	Mean 18 Distributor/Column: Accolade Subject: simulation / sports (golf) Notes: the year's best entertainment value System: GS Price: \$45	rb Jeff Hurlburt
Dec 87	28	Thexdar Distributor/Column: Sierra On-Line Subject: arcade Notes: combat arcade adventure System: GS Price: \$35	
Dec 87	28	Tower of Myraglen Distributor/Column: PBI Subject: fantasy Notes: rich color and comprehensive sound effects System: GS / external stereo recommended Price: \$55	
Dec 87	29	Sea Strike Distributor/Column: PBI Subject: arcade Notes: no-perspective graphics and OK sound System: GS	
Dec 87	29	GBA Championship Basketaball: Two-On-Two Distributor/Column: Activision Subject: simulation / arcade / sports Notes: surprisingly everything works fine, lack of dual-joystick option System: GS / joystick recommended Price: \$40	
Dec 87	30	Cavern Cobra Distributor/Column: PBI Subject: arcade Notes: an arcade accident best avoided System: GS Price: \$50	
Dec 87	30	Shanghai Distributor/Column: Activision Subject: strategy (solitaire mahjongg) Notes: wins the 1987 Elegance prize System: GS Price: \$45	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Dec 87	31	Bard's Tale / Tass Times in Tonetown / Hacker II Distributor/Column: Electronic Arts / Activision Subject: fantasy / adventure Notes: favorites re-released in GS format System: GS	
Dec 87	37	ProDOS 16 GSBASIC for the Apple IIGS Distributor/Column: APDA Subject: language Notes: moves into the world of a full-function language, but it has competition takes advantage of expanded memory and TOOLS System: GS Price: \$50	rb Ken Kashmarek
Dec 87	46	Apple II Timing Specifications Distributor/Column: Speaking of Hardware Subject: technical Notes: more on disk drives / Central Point 800K Drive the timing of peripheral cards for the Apple II family	Peter & Allen Baum
Dec 87	50	Using TOOLS with the Apple IIGS Subject: tutorial / programming Notes: leaving behind the "old" habits and entering a new world System: GS	Wesley Felty
Dec 87	56	AutoWorks Review Distributor/Column: The Software Touch Subject: utility (macro) Notes: enhance your productivity System: AppleWorks Price: \$49	Bird, Alan / rb Cecil Fretw
Dec 87	60	Foreign Languages & the IIGS Subject: language Notes: producing foreign language printed output System: ImageWriter	
Dec 87	60	Programming Environments / Integer and other BASICS on the GS Distributor/Column: A.P.P.L.E. Doctor Subject: programming	
Jan 88	12	Better Living Through Outline Processing Distributor/Column: various Subject: outliner Notes: First Draft, ThinkWorks, Calliope, Outliner 50 things to do with your outline processor	Jim Tankard
Jan 88	17	A Super Hi-Res Font Conversion Aid Subject: utility Notes: converting the 7 pixel wide ASCII Double Hi-Res font to an 8 pixel wide font for Super Hi-Res System: GSBASIC	Ken Kashmarek
Jan 88	25	TIC.TOC Distributor/Column: listing Subject: utility (clock/calendar) Notes: time/date display STARTUP System: GS / ProDOS 8	Jeff Hurlburt
Jan 88	26	A Survey of APW Products Distributor/Column: Programming on the Apple IIGS with APW and related products Subject: programming / languages Notes: APW, ORCA/M, APW C, ORCA/Pascal, TML Pascal, Apple IIGS Debugger, Merlin to ORCA/M translator, ORCA/M Utility Package #1, TML Speech Toolkit	Mike Westerfield
Jan 88	31	GS16Forth for the Apple IIGS Distributor/Column: GSF Subject: language System: GS Price: \$30	rb Thomas Tosch

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 88	35	Turbocharged AppleWorks Distributor/Column: Beagle Bros / Data Transforms / PinPoint Subject: spelling checker / publishing/ business graphics / data management Notes: Time Out Series (very exciting), Printrix, Graphic Edge, ProFiler 3.0 System: AppleWorks	Marc Apfelstadt
Jan 88	41	Handling Variable Length Record Efficiently Subject: technique / file handling Notes: making random access files efficient	Scott G. Smith
Jan 88	44	Print Shop IIGS: the next generation Distributor/Column: Broderbund Subject: publishing Notes: a worthy sequel System: GS	rb Donald J. Geenen
Jan 88	50	Bank Switching / Serial Interface Code Distributor/Column: Consultant's Corner Key Terms: AUX memory Subject: technical	Cecil Fretwell
Jan 88	53	FrEdWriter Version 4: an alternative solution Subject: word processor Notes: remarkably complete, powerful, bug-free and cheap	Lutus, Paul and Al Rogers /
Jan 88	55	Speed-Up DOS / Floating Point Arithmetic / Isolation Transformers Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: All About DOS (book), GS System Disk 3.1	Bruce Field
Feb 88	12	A.P.P.L.E. Co-op Celebrates a Decade of Service Subject: history (interviews) / user group Notes: with Darrell Aldrich, Ron Aldrich, Bob Clardy, Val Golding, Dick Hubert, Bob Huelsonk, Neil Konzen, Dave Lingwood, Charlie Stillman, Kathryn Suther, Mike Thyng, Don Williams	by Val Golding and Kathryn
Feb 88	28	Tools for the raving bit-twiddler Distributor/Column: Bit Twiddling Key Terms: classic desk accessory (CDA) Subject: technique / programming Notes: Mah-jong tiles,, Visit Monitor System: assembly	Sean Nolan
Feb 88	31	Using APW on Small Systems Distributor/Column: Programming on the Apple IIGS: with APW and Related Products Subject: technique Notes: explore the glamorous world of the diskstyles of the rich and famous System: APW / ORCA/M	Mike Westerfield
Feb 88	37	Word Processing Update: specialized products and new releases Distributor/Column: various Subject: word processor Notes: Term Paper Writer, Gutenberg Senior, MultiScribe GS 3.0, GraphicWriter 2.0, Word Perfect GS 2.0	Marc Apfelstadt
Feb 88	44	BOOT SYSTEM with GPLE, APA, and TIME-Stamping Subject: utility Notes: automatically load GPLE and APA under ProDOS and time stamp files	by Michael J. Paris
Feb 88	51	Fantavision Distributor/Column: Broderbund Subject: graphics / animation animated movies System: GS	rb Jeff Hurlburt
Feb 88	53	Aspects of RS232C Distributor/Column: Consultant's Corner Subject: technical	Cecil Fretwell

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Feb 88	61	IIGS Finder / Magnetic Interference / Printing Applesoft Listings Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: File Backup Bit, distinguish between UniDisk 3.5 and Apple 3.5 drive AppleWorks 2.0 and the GS, Apple RGB Monitor, GS RAM, OCRs	by Robert C. Platt and Bruce
Mar 88	12	Financial Planning Subject: home finance, tax, spreadsheet, simulation Notes: Dollars and \$ense, 1040 Works, Multi-flex Spreadsheet, Millionaire II	by David Sparks
Mar 88	18	APW C 1.0: raw power for IIGS Programmers Distributor/Column: Apple Subject: language	rb Enrico Colombini
Mar 88	28	Screen Mover Subject: utility Notes: moving screen windows and memory System: assembler (Merlin)	Cecil Fretwell
Mar 88	39	Parameter Passing Distributor/Column: Bit twiddling Subject: technique Notes: differences between C and Pascal conventions 6502 Getword subroutine	Sean Nolan
Mar 88	43	GS Notes & Observations Key Terms: ENIAC Subject: computer System: GS	Marc Apfelstadt
Mar 88	47	Customizing the Shell Distributor/Column: Programming on the Apple GS with APW and related products Subject: technique / systems design Notes: how you can change the names of shell commands and add new commands	by Mike Westerfield
Mar 88	54	The ROM Alternatives Distributor/Column: Speaking of Hardware Key Terms: EPROM, EEPROM Subject: ROM Notes: needed for development	Peter & Allen Baum
Mar 88	61	Hires Graphics page 2 / Applesoft random number / IIGS BASIC random Distributor/Column: A.P.P.L.E. Doctor Key Terms: stack Subject: tip Notes: converting Applesoft to IIGS BASIC / EDIT in IIGS Basic / installing fonts / IIGS boot problem / convert hex to dec / ProDOS date routine	Robert C. Platt & Bruce F.
Apr 88	12	The Apple IIGS Pascal Revue Distributor/Column: various Subject: language Notes: a survey of Pascals for the Apple II Apple Pascal, Pecan Pascal, TML Pascal, Orca Pascal	by Christopher Howerton and
Apr 88	18	Bridging the Gap Distributor/Column: Consultants Corner Key Terms: argot Subject: support Notes: advice to a GS user wants to learn more how to set up a bootable disk to place the GS in the 8-bit world	Allan R. Martin / Cecil Fre
Apr 88	51	Mixing Apple & Oranges / Designating Slots Distributor/Column: Consultants Corner Subject: tip / patch Notes: books / why GS programs are so slow / mixing ProDOS versions making AppleWorks recognize /RAM7 / GS interrupts	David Wakefield / Elmer Mei

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Apr 88	52	Bugs, Updates, and Software Development Distributor/Column: Consultant's Corner Key Terms: user profile, virus Subject: software development Notes: why GS programs crash often / how software is developed / support listing GS BASIC programs to printer / change from SLOT to PORT	Marc Apfelstadt
Apr 88	19	Fjord Glyphs Distributor/Column: Bit Twiddling Subject: technique Notes: a random number algorithm April Fools: bouncing Apples	Sean Nolan
Apr 88	23	Pascal Fonts Subject: utility Notes: modify any of the character shapes in SYSTEM.CHARSET System: Pascal	Scott G. Smith
Apr 88	30	Mixing Languages Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: bubble sort, profiler, relocatable code, macro, quick sort Subject: technique / programming Notes: how to use assembly language with Pascal implementing recursion in assembly System: C, Pascal, assembly	Mike Westerfield
Apr 88	43	AutoWorks Macros examples Distributor/Column: Write-Apple Subject: tip Notes: bring up a list of files to add to desktop, return address, display right-justified paragraph System: AutoWorks	W. Henry Linton, Jr.
Apr 88	58	Two Megabyte IIC Distributor/Column: Write-Apple Subject: technique / hardware Notes: use both Applied Engineering and Apple memory card in the IIC (at the same time)	Ed Wheeler and Myk Manon
Apr 88	46	Quicken / On Balance / Smart Money Distributor/Column: Intuit / Broderbund / Sierra On-Line Key Terms: disk blocks, copy-protection Subject: home finance	rb David G. Sparks (Financi
Apr 88	57	Best Actor -- More on Booting a disk drive Distributor/Column: Speaking of Hardware Key Terms: daisy-chain Subject: technical Notes: Central Point's UDC scans, then stops / booting directly into a program Guenther drive, build a memory card, "Great" new products that die	Peter & Allen Baum
Apr 88	61	Beware of the degaussing coil / quality fonts w/ AppleWorks (SuperF Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: GS maximum font height / print text on the GS / IIGS BASIC listings	Robert C. Platt and Bruce F
May 88	11	Meet the Technical Editor Distributor/Column: From the Technical Editor's Desk Subject: magazine Notes: goal: to present the technical aspects of Apple II computers	Cecil Fretwell
May 88	12	Desktop Publishing From Your Apple II Distributor/Column: various Subject: publishing Notes: Personal Newsletter / Publish-It! / Springboard Publisher / GEOS Multiscribe GS / Graphic Writer 2.0 / Thunderscan / PaintWorks Gold The Graphics Studio / ShowOff	Marc Apfelstadt

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 88	18	Glossary of Desktop Publishing Terms Subject: publishing	Gordon McComb (The Desktop)
May 88	20	The Character Factory ver 2.1 Distributor/Column: Seven Hills Subject: publishing Notes: adding special characters to word processing documents	rb Lee Webster
May 88	22	AC/BASIC Distributor/Column: Absoft Subject: language Notes: a BASIC compiler for the IIGS in a desktop System: GS Price: \$125	rb Ken Kashmarek
May 88	28	MAKE (sort of) Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: UHK Subject: utility / programming Notes: simulating the Unix MAKE utility System: APW	Mike Westerfield
May 88	38	A Screen Blanker Distributor/Column: listing Key Terms: control register, interrupt Subject: utility Notes: avoiding screen burns System: GS	Cecil Fretwell
May 88	41	A Voyage into the world of fantasy Distributor/Column: Game Plan Key Terms: RPG Subject: fantasy Notes: a review of Legacy of the Ancients gone wild Alternate Reality: the Dungeon	Val J. Golding
May 88	47	World Games / Dream Zone / Distributor/Column: Epyx / Baudville Subject: simulation/arcade (sports) / adventure (graphics) System: GS	rb Jeff Hurlburt
May 88	48	Smartport eject command problem / identifying computers / Apple II Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: Apple IIGs graphics, finder, icons, fonts, IWEM, storage running Integer BASIC, Applesoft hi-res conflict	
May 88	50	Everything You've Always Wanted to Know About Running an Apple II F Distributor/Column: Speaking of Hardware Key Terms: cache Subject: technical Notes: The Zip Chip uses disk caching	Peter & Allen Baum
May 88	54	Making a GS Turnkey System / Launching Programs in BASIC Distributor/Column: Consultant's Corner Subject: technique / tip Notes: AppleWorks spelling checkers / IIC hard disk drives	Cecil Fretwell, Shari Carna
May 88	55	Making AppleWorks recognize a RAMFactor card in the GS Subject: patch	
May 88	56	An Easy Choice Distributor/Column: listing Subject: technique Notes: a selector for multiple-choice questions	Douglas C. Brower
May 88	61	GS Works Distributor/Column: StyleWare Subject: integrated Notes: GS is to the GS what AppleWorks was to the II System: GS	

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 88	62	TeleWorks Plus / MouseFiler Network Utilites Distributor/Column: Activision / Harbor Subject: communications / network Notes: the first communications program designed specifically for the GS enables Apple II to work with AppleShare on AppleTalk	
Jun 88	12	Demystifying MIDI Key Terms: MIDI Subject: music Notes: Future Sound, GS File, Music Studio 2.0, Instant Music, DiversiTune Super Sequencer, MasterTracks, PolyWriter, MusicWriter 2.0, MusicShapes System: GS	Marc Apfelstadt
Jun 88	18	COMPACT utility problem (in APW Shell) Distributor/Column: Write-A.P.P.L.E. Subject: tip Notes: AppleWorks double column macro Iic satisfies 99.9% of computer users needs	
Jun 88	19	Apple IIGS Compiler Timings Key Terms: Sieve of Eratosthenes, Ackerman's Function, Fibonnacci, Savage Subject: language / benchmark Notes: comparing performance aspects of APW/C, ORCA/Pascal, and AC/BASIC QuickSort System: GS	Ken Kashmarek
Jun 88	27	More on Running an Apple II Faster -- implementing the Zip Chip Cac Distributor/Column: Speaking of Hardware Key Terms: DMA Subject: technical Notes: the Zip Chip cache method and drawbacks to caching	Peter and Allen Baum
Jun 88	30	The Real World Distributor/Column: Programming on the Apple IIGS with APW and Related Products Subject: tutorial / programming Notes: how numbers are represented in the computer: integers, fixed-point, floating-point, BCD, SANE, Will Troxell's 68881 co-processor	Mike Westerfield
Jun 88	37	Centering Text with Print Shop IIGS / tracing an Applesoft crash Distributor/Column: Consultant's Corner Subject: technique Notes: Note Sequencer and Note Synthesizer (Apple IIGS Tools) / BRL instruction Shape Tables & QuickDraw / Super Hi-Res Convert utility	Donald J. Geenen / Cecil Fr
Jun 88	40	PaintWorks Gold Distributor/Column: Activision Subject: graphics Notes: much more than PaintWorks Plus a graphics package both powerful and intuitive to use System: GS Price: \$100	by David G. Sparks
Jun 88	43	Lebensraum for Memory Hungry Programs Distributor/Column: Bit Twiddling Key Terms: AUXMOVE, XFER, softswitch Subject: technique Notes: auxiliary memory on the IIE and IIC and how assembly language programs can access it	Sean Nolan
Jun 88	48	Computer Viruses / speed up SuperFonts / ASCII and text files Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: Mac to GS conversions (Apple File Exchange), Using the Applesoft TRACE QuickSort, Bunning and Squeezing files, ThunderClock and ProDOS dates	Robert C. Platt and Bruce F
Jun 88	50	Picture Smoothing, Maze Solving and Cellular Logical Operators Subject: graphics / technique Notes: CLOs are a good place to start learning about image processing	Rick Chapman

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jul 88	8	AppleLink - Personal Edition Subject: communications service Notes: The Apple II Telecommunications Forum Leader takes us on a guided tour of the system	by Vince Cooper
Jul 88	14	Telecommunications: the on-going saga Key Terms: squeezed files Subject: communications Notes: a discussion of bulletin board systems, file transfers and protocols MouseTalk, Point-to-Point, ProTERM, TeleWorks	by Cecil Fretwell
Jul 88	21,	The Long-Awaited ZIP CHIP Distributor/Column: Speaking of Hardware Subject: accelerator Notes: when the chip runs, it works like a charm tested against: Transwarp, stock IIGS, IIE	by Peter and Allen Baum; an
Jul 88	24	Segmentation, Part 1 Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: relocatable, register, direct page Subject: technique / programming Notes: how to create programs with multiple code and data segments	Mike Westerfield
Jul 88	45	The Spring Developers' Conference Distributor/Column: Pub Darts Subject: conference Notes: Apple from the top down: preaching to the converted Apple wants to control every bit of information going out about it	Frank Catalano
Jul 88	53	Problem with CONVERTing programs from DOS 3.3 to ProDOS Distributor/Column: Write-A.P.P.L.E. Subject: tip Notes: Applesoft files transferred from DOS 3.3 to ProDOS that had been saved from an addressed other than \$801 are given an incorrect auxiliary type	Joel Buckley
Jul 88	54	Lebensraum for Memory-Hungry Programs (Part II - The GS) Distributor/Column: Bit Twiddling Key Terms: shadowing Subject: technique Notes: getting at additional memory found with the IIGS	Sean Nolan
Jul 88	56	remove floppy disk? / disk retainer / testing disk drive speed Distributor/Column: A.P.P.L.E. Doctor Notes: random number seeds, random numbers with TML Pascal, inverse file names AppleWorks 2.0 on GS hard disk / rename folders in GS Finder	Robert C. Platt & Bruce F.
Jul 88	60	Intermittent Flashes during disk operations / DOSCMD problems Distributor/Column: Consultants' Corner Subject: tip / technical Notes: using GET with 80-column card (don't), the stack concept using Prometheus VersaCard / inaccurate arithmetic in Applesoft	Cecil Fretwell
Jul 88	62	ProDOS V parameter / Using ONERR with GOTO Distributor/Column: Consultants' Corner Subject: tip / technical Notes: add and delete buffers with GETBUFR and FREEBUFR using MLI in BASIC.SYSTEM global area / using HIMEM \$73,\$74 buffer area	Cecil Fretwell
Jul 88	64	Behind the Scene: dreams become a reality Distributor/Column: AppleFest/Boston Subject: interview / industry Notes: behind the scenes at Zip Technology (ZIP CHIP) and Bits & Pieces Technology (ROCKETCHIP)	Kathryn Hallgrimson Suther
Sep 88	10	NDA's 101 Key Terms: desk accessory Subject: technique Notes: an introduction to writing NDAs	Tim Swihart

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Sep 88	18	CDAs Without ProDOS 16 Subject: technique Notes: Apple IIGS Classic Desk Accessories can be used without booting ProDOS P8CDA (Roger Wagner Publishing)	David A. Lyons
Sep 88	20	Using the IIGS Text Tools with Assembler, C, and Pascal Subject: technique / programming	Ken Kashmarek
Sep 88	28	Too Much of a Good Thing Distributor/Column: Pub Darts Subject: computer Notes: reconciling the Apple II and Macintosh lines	Frank Catalano
Sep 88	41	Weekend Programming on the Apple IIGS Distributor/Column: various Subject: language Notes: deciding which language/environment to use	Joe Abernathy
Sep 88	46	All About GEnie: General Electric's Online Information Service Key Terms: 65832, Binary II Subject: communications service Notes: Tom gives us a tour	Tom Weishaar
Sep 88	51	Iconix / Sonix / Disk Commander Distributor/Column: So What Subject: graphics / sound / disk utility System: GS	rb Marc Apfelstadt
Sep 88	53	Behind the Scene: the Breakfasts and the private interviews Distributor/Column: AppleFest/Boston Subject: conference Notes: The Developer's breakfast: Del Yocam (Apple), Barney Stone (StoneWare) Kevin Harvey (StyleWare), Brian Dougherty (Berkely Softworks)	Kathryn Hallgrimson Suther
Oct 88	10	My Favorite AppleWorks Tricks Subject: technique Notes: all-purpose printer code, multiple record insert, database subtotals, spreadsheet graphing, jump to end of line, keeping different AW versions System: AppleWorks	Chris Van Buren, Editor: Th
Oct 88	16	A Visit with the Trickster (Chris Van Buren) Subject: interview Notes: the editor of the AppleWorks Journal	Kathryn Hallgrimson Suther
Oct 88	19	AppleWorks Spreadsheet Bar Graphs Subject: technique Notes: represented as calculated numerics	Lorin Hungsberg
Oct 88	20	Segmentation, Part 2 Distributor/Column: Programming on the Apple IIGS with APW and Related Products Subject: technique / programming Notes: OMF (Object Module Format) 1.0 vs. 2.0 / Direct Page Segments Startup Segments	Mike Westerfield
Oct 88	44	Intermittent Flashes clarified / stack usage / ONERR Clarification Distributor/Column: Consultant's Corner Subject: tip Notes: Programming Mouse Routines / APW C Tips: handling calls, long pathnames Starting/Shutting Down GS Tools	Cecil Fretwell / Julian Pug
Oct 88	50	Using lots of fonts and desk accessories / GS Memory Requirements Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: font family / upgrading to Pascal 1.3	Robert C. Platt & Bruce F.
Oct 88	52	Variations on the Apple II disassembler Subject: technical Notes: the GS disassembler and implementing an "old-style" disassembler on the GS System: GS	James A. Hodge

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Oct 88	56	The Graphics Studio Distributor/Column: Accolade Subject: graphics Notes: a surprisingly complete graphics program System: GS Price: \$50	rb David G. Sparks
Oct 88	58	Pathnames, Directories, and Prefixes Subject: tutorial / operating system Notes: three fundamental ProDOS concepts	Gary B. Little
Oct 88	60	Home is Where the Apple is: Recognizing computers outside the office Distributor/Column: Pub Darts Subject: industry Notes: is there a place for home computers in the home?	Frank Catalano
Oct 88	66	FORTH Language / Beyond Games / Pseudo Languages? Subject: language / programming Notes: FORTH is marvelous / programs should be delivered in unprotected ProDOS wants articles using BASIC and Pascal (in addition to assembly and C)	Donald T. Wile / George H.
Nov 88	8	Alien Mind / Defender of the Crown / King's Quest: Quest for the Crown Distributor/Column: various Subject: entertainment Notes: Police Quest: In Pursuit of the Death Angel / Beyond Zork / Monte Carlo Blackjack Academy / World Tour Golf, Mean 18 / Bubble Ghost System: GS	rb Jeff Huriburt
Nov 88	12	Randomizing Applesoft's RND Functions under ProDOS Distributor/Column: Write-A.P.P.L.E. Subject: technique Notes: randomizing the RNG in an unpredictable way	Bob Bragner
Nov 88	49	Apple Italy Distributor/Column: Write-A.P.P.L.E. Subject: support Notes: Bad News from Italy: Apple has virtually withdrawn from the personal computer market	
Nov 88	14	NDA's 102: Applying the Example Subject: technique Notes: an NDA which gives a sample of what a selected font looks like System: ORCA/Pascal v1.2	Tim Swihart
Nov 88	23	Segmentation, Part 3 Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: thrashing Subject: technical Notes: dynamic segments	Mike Westerfield
Nov 88	44	All About Comuserve Key Terms: MAUG, <grin> Subject: communications service	Marc Apfelstadt
Nov 88	47,	Kaleidoscope, Elf Scale, Dimension, Agility, Chandelier Distributor/Column: One-Liner Subject: novelty	David Wicker
Nov 88	50	IIGS Text Screen Dumper Key Terms: CDA, IRQ Subject: utility / technical Notes: locating the entry environment from within a CDA	Sandy Mossberg
Nov 88	57	IIGS Configuration, but first a lesson on the boot process Distributor/Column: Consultants' Corner Subject: technical	Cecil Fretwell

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Nov 88	58	A Choice of languages for the IIGS Subject: language Notes: Pascal and C	
Nov 88	59	Converting to Super Hi-Res / Specifying Startup Program Subject: tip Notes: BQY corrections	Cecil Fretwell / Tim Swihar
Nov 88	60	IIGS System Disk 3.2 / Applesoft Erase to end of line Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: renaming a IIGS file or folder / Wide Spreadsheet print (use DIF file) color monitors / GIF files	Robert C. Platt
Dec 88	9	A.P.P.L.E. Co-op is changing it's name to TechAlliance Subject: company Notes: Apple Computer, Inc. doesn't seem to appreciate the word "Apple" in our name	
Dec 88	10	Using Apple's New MIDI Tool Set Subject: technical Notes: Note Synthesizer, Note Sequencer, MIDI tools MIDIScope: a program to let you see the data going across the MIDI bus System: GS	Jim Mensch
Dec 88	20	Apple IIc Plus / HyperStudio / Tutor-Tech / Do-Re-Me Subject: computer / creative environment / education / integrated	rb MarketPlace
Dec 88	21	GS/OS: the next generation Distributor/Column: Apple Key Terms: ProDOS 16, interleave, cache, FST, bootmeter Subject: operating system Notes: why was GS/OS introduced?	by Ken Kashmarek
Dec 88	27	Grokking Grep or Practical String Searching Distributor/Column: Programming on the Apple IIGS with APW and related products Key Terms: Blaise Pascal Subject: technique Notes: a utility that lets you search a file for a string System: C	Mike Westerfield
Dec 88	35	Affordable Languages Distributor/Column: various Subject: language Notes: languages for CP/M: Ellis Computing, Nevada FORTRAN and COBOL, FIG-Forth Turbo Pascal, MIX C, Blankenship BASIC, Universal File Converter	Michael J. Paris (Readers'
Dec 88	49	Preinitialized Variables in IIGS Pascal Subject: technique Notes: use the assembler to create an object module format (OMF) file, then link this OMF file to the OMF file containing the Pascal object System: TML Pascal, ORCA/Pascal	James Luther
Dec 88	53	New TechAlliance BBS Subject: BBS Notes: supplants A.P.P.L.E. Crate	
Dec 88	54	PC Transporter Distributor/Column: Applied Engineering Subject: coprocessor Notes: how it works, what you get, setting it up 10% slower than an Epson Equity-2 System: V-30 Price: \$1017 (for 768K, one drive, installation kit)	rb Rick Sutcliffe
Dec 88	60	Some Tech Notes on IBM Subject: technical Notes: a huge sidebar to Sutcliffe's Transporter review	Cecil Fretwell

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Dec 88	62,	Racer One-Liner / Oriental Rug / Veil / NicoMagic Subject: novelty	David Wicker
Dec 88	66	Systems, System 4.0 from 3.1 / Installer / Shut Down / Hex to Decim Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: EAMON / DIF Files	Robert C. Platt
Dec 88	70	GETKEY with selectable cursor / Print Using and Friends under ProD0 Distributor/Column: Consultants' Corner Subject: tip Notes: AWP headers / change IIGS system speed / IIGS Mouse in interrupt mode	Cecil Fretwell
Jan 89	8	Facing Some Hard Options Distributor/Column: various Key Terms: SCSI, tape drive Subject: hard disk Notes: First Class Peripherals (Sider, D4T, D4A), Chinook Technology, GCC Technologies (formerly General Computer), CMS	by Vince M. Cooper
Jan 89	15	TML BASIC Distributor/Column: TML Subject: language / compiler Notes: a Basic compiler for the IIGS in a desktop environment System: GS / GSBASIC Price: \$125	rb Ken Kashmarek
Jan 89	18	AC/ BASIC and the AC/Exerciser Distributor/Column: Launching into BASIC Key Terms: Toolbox, top-down Subject: language / programming Notes: introduction to capabilities and limitations System: GS	Joe Abernathy
Jan 89	25	The Source Key Terms: AppleSIG, Scripts, Apple IIGS Buyer's Guide Subject: communications service	rb Joseph Kohn
Jan 89	44	Debugging Programs / Computational Entomology Distributor/Column: Programming on the Apple IIGS with APW and Related Products Subject: programming Notes: sources of, detecting, locating, eliminating, and avoiding bugs debugging tools: logic analyzer, NiftyList, debuggers	Mike Westerfield
Jan 89	50	UniDisk 3.5 and Apple 3.5 disk drives / interleave factor Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: GS/OS, FST / GS and Sider D2 / installer blow up / disk cache, RAM cache	Robert C. Platt
Jan 89	51	Statement of Ownership, Management and Circulation Subject: magazine Notes: 12,429 average paid or requested	
Jan 89	52	Bug Juice or exploring the APW Linker Subject: programming System: APW, TML Pascal	David G. Sparks
Jan 89	58	Starting out with Pascal on the GS / Dialog Boxes in APW assembly Distributor/Column: The Consultant's Corner Subject: tip / technique Notes: accessing disk controllers under DOS 3.3 / AUXMOVE and XFER (5/89,p60) Lam on the GS	Joe Abernathy / Cecil Fretw
Jan 89	64	Thanks to Julian Pugh Distributor/Column: Write-A.P.P.L.E. Subject: support	Jim Collins

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 89	66	Color Patterns One-Liner Subject: novelty	David Wicker
Feb 89	8	Higher Education Applications Subject: education Notes: the university environment / WordPefect, Bookends Extended, ZIP CHIP, MouseWrite, ManuScript Manager, DB Master Pro, APPSTATS & GRAPH, APA, STATISTIX, MagnaCharta, Report Card II, Sensible Grammar	Marc Apfelstadt
Feb 89	14	GS/OS: The Next Generation (Part II) Distributor/Column: Apple Key Terms: FST Subject: operating system Notes: what's available and some of its capabilities / device drivers, compatibility, Class 0 CALLS, Procedure SetLoad	Ken Kashmarek
Feb 89	22	Input and Output and Pipes, Oh My! Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: Wizard of Oz Subject: software development	Mike Westerfield
Feb 89	28	Big Changes in APDA Subject: organization Notes: being taken over by Apple	
Feb 89	41	TML BASIC Shell Distributor/Column: Launching Into BASIC Subject: software development Notes: introducing a standard programming environment for TML BASIC that will enable you to produce useful desktop software	Joe Abernathy
Feb 89	49	The Inquisitive EXEC Subject: technique Notes: the limits of an EXEC file and how it can be made more useful	James Hodge
Feb 89	54	AUXTYPE: A Shell Utility for ORCA/M or APW Key Terms: redirection Subject: utility Notes: the fundamentals of writing a shell utility and a convenient method of manipulating the auxiliary type attributes of files loaded during boot System: ProDOS 16	Sandy Mossberg
Feb 89	62	AppleWorks GS / GS/OS / Slots / Startup Drive Distributor/Column: A.P.P.L.E. Doctor Subject: tip / technical	Robert C. Platt
Feb 89	64	Using TML BASIC CALL% and R.STACK / Loading Graphics with AC/BASIC Distributor/Column: Consultant's Corner Subject: tip Notes: Applesoft array address	Jim Luther / Cecil Fretwell
Mar 89	8	HyperStudio Distributor/Column: Roger Wagner Publishing Key Terms: HyperCard Subject: authoring tool Notes: HyperMedia for the GS System: GS Price: \$129	rb David G. Sparks
Mar 89	11	Tutor-Tech Distributor/Column: TechWare Subject: authoring tool Notes: designed for the creation of lessons in the classroom Price: \$195	rb Lee Webster
Mar 89	13	Mouse Basics Distributor/Column: Programming the AppleMouse II Subject: technique Notes: from Applesoft, from Assembly Language	Kenn Scribner

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Mar 89	20	FORTRAN-77 for the IIGS Distributor/Column: Pecan Software Systems Key Terms: p-code Subject: language Notes: operates under the UCSD Pascal-based Power System an alternative to the dead Apple Fortran System: GS / ProDOS-16 Price: \$250	rb Donald J. Geenen
Mar 89	26,	Fission / Guess A Number / Oriental Rug Distributor/Column: One-Liner Subject: novelty Notes: Racer	David Wicker
Mar 89	27	presenting the The First Tools in the Call-A.P.P.L.E. libraries Distributor/Column: Launching Into BASIC Subject: programming Notes: low-level text, window, and dialog handlers; a startup screen generator; and a goodbye usage screen generator System: AC/BASIC	Joe Abernathy
Mar 89	36	A IIGS Heartbeat Screen Blanker Key Terms: vertical blanking Subject: utility Notes: interrupts and how to implement timed background activities System: ORCA/M Assembler	Sandy Mossberg
Mar 89	47	Battery Operated Puzzle Distributor/Column: Two-Liner Subject: simulation Notes: the object is to light all the buttons	Paul Nix
Mar 89	48	A Text File Editor Key Terms: Input Anything Subject: editor Notes: a simple utility to create EXEC files	James Hodge
Mar 89	50	Aoplesoft and the ProDOS prefix Distributor/Column: The Consultant's Corner Subject: technical / tip Notes: ASCII codes for storing characters to screen memory	Cecil Fretwell / Yvan Koeni
Mar 89	54	Base Conversion with a Classic Desk Accessory Subject: utility Notes: undocumented CDAs and a CDA to convert hexadecimal to/from decimal System: GS / ORCA/Pascal	Patrick M. Gormley
Mar 89	58	Z-Link Plus virus / 3.5" floppy tracks have more sectors Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: IIC plus identification / SCSI, Sider / RAM card, ROM card GS vertical resolution, GSBASIC, MUFFIN, HUFFIN, PUFFIN	Robert C. Platt
Mar 89	60	About Numerical Analysis Subject: mathematics Notes: errors commonly made about numerical and error analysis	Chuck Butler
Mar 89	62	Micol Advanced BASIC Distributor/Column: Micol Systems Subject: language System: GS	rb R.M Yost (Write-A.P.P.L.)
Mar 89	62	Problems Apple owners are having in Italy Subject: support	Cecconi Maurizio
Apr 89	8 (MIDI Madness, MIDI Magic Distributor/Column: various Subject: music Notes: new: Sonic Blaster, DiversiTune, Music Writer, MIDI On Stage, Z-Mann Apfelstadt's personal setup / getting started System: GS	by Marc Apfelstadt

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Apr 89	13	An APW Command File Distributor/Column: listing Key Terms: command line, EXEC Subject: programming / utility Notes: build your own memory resident command processor System: ORCA/Pascal	Ken Kashmarek
Apr 89	20	A Purge Utility Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: internal Memory Manager data structures Subject: utility Notes: purges all purgeable blocks and compacts memory System: APW	Mike Westerfield
Apr 89	23	Passive Mouse Operations Distributor/Column: Programming the AppleMouse II Key Terms: interrupt, poll Subject: technique Notes: from assembly language	Kenn Scribner
Apr 89	27	NicoMagic / Ocular One-Liner Subject: novelty	David Wicker
Apr 89	28	recovering from AppleWorks hangs / edit APW source with AppleWorks Distributor/Column: Consultant's Corner Subject: tip Notes: using the Lam technique on the GS / sharing printers with an AT clone varied print quality on the GS	Cecil Fretwell / David Hill
Apr 89	29	Public Domain Software Catalog Subject: software Notes: the TechAlliance PDS Library	by Doug Trueman
Apr 89	44	The Last Word on Random Numbers in Applesoft Key Terms: WAIT Subject: technical Notes: re-presenting the Faulkner replacement random number generator	David G. Sparks
Apr 89	48	Apple IIGS Data Structures Distributor/Column: Launching Into BASIC Key Terms: scratch Subject: tutorial Notes: data structures common to AC/BASIC and TML BASIC and a library of routines to manage data for a customer database	Joe Abernathy
Apr 89	53	Hard Drives: following up with more options Distributor/Column: Intuition Systems / Applied Ingenuity / First Class Peripherals Key Terms: LAN Subject: hard disk / benchmarks Notes: WARP Q84 and Inner Drive (internal drives) Sider D9 and C96T (large capacity)	rb Vince M. Cooper
Apr 89	58	Programming the Apple IIGS in Assembly Language Distributor/Column: Brady Subject: book / tutorial Notes: take the "Hello World" program and develop it into a complete IIGS Desktop Application System: APW Price: \$30	Lichty, Ron and David Eyes
May 89	8 (The Deep, Dark Secrets of IIGS Launchers Subject: utility Notes: a short history / how launchers work / a simple program selector System: GS / APW-ORCA/M	David R. Hill
May 89	15	Micol Advanced BASIC Distributor/Column: Micol Systems Key Terms: procedures, parameters, recursion, benchmark Subject: language / compiler Notes: may be just the tickert for Applesoft programmers looking to step up to the advanced functional capabilities of the IIGS / Pascal-like features System: GS / 512K Price: \$145	rb Ken Kashmarek

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
May 89	21	Living on the Edge: Interfacing Assembly Language Routines to APW Key Terms: data stashing, stack storage, frame pointer, heap Subject: technique Notes: an assembly language function MKDIR which illustrates the techniques necessary for marrying C and assembler routines System: GS / APW/C (originally in ORCA/M)	Paul B. Harwood
May 89	26	Interrupt Environments Distributor/Column: Programming the AppleMouse II Part 3 Key Terms: Toolbox Subject: technique Notes: how the mouse runs in an interrupt environment System: assembly	Kenn Scribner
May 89	44	Fixing a Bug in TML Pascal (version 1.50 for APW) Key Terms: typecast, univ Subject: language / bug Notes: a problem with the INT2HEX call in the Integer Math group	David G. Sparks
May 89	46	Enhanced Data Facilities of TML BASIC Distributor/Column: Launching into BASIC Key Terms: records, pointers, handles Subject: technique Notes: adding windows to the TML Shell (2/89) and implementing a library of customer database tools / Joyreader (Phil Shapiro) System: TML BASIC	Joe Abernathy
May 89	52	Desktop Publishing: the saga continues Distributor/Column: various Subject: publishing Notes: additions and revisions: Publish It 2, Springboard Publisher 2.01, Graphic Writer II, Medley 1.1, GeoPublish 2.1, Graphics Exchange, MiniPaint, Rocket Chip, GS Juice Plus	Marc Apfelstadt
May 89	56	Viruses Key Terms: bombs, Trojan Horse Subject: maintenance Notes: protection and an annexed Applesoft program which checks for CyberAIDS and Festering Hate (viruses)	Robert Schack
May 89	60	AUXMOVE/XFER revisited / AppleWorks WP Recovery Distributor/Column: Consultants' Corner Subject: technical / tip Notes: customized cursor (IIC) / condensed print with IIC serial interface	Brian Massey / Cecil Fretwe
May 89	63	Apple Technotes / TFF and FST / .EXE suffix, .BNY suffix, unBNYing Distributor/Column: A.P.P.L.E. Doctor Key Terms: Finder Icon Colors Subject: technical / communications Notes: AppleWorks Expander 2.54 (for AppleWorks 2.0+), AppleWorks 2.1 upgrade AppleWorks patches / TML, ORCA and APW / ORCA Pascal Linker bug	Robert C. Platt
May 89	64	Lo-Res Design Tool Distributor/Column: One Liner Subject: graphics Notes: design a Lo-Res screen	David Wicker
Jun 89	8	The Trouble with Fonts or, "what you see isn't what you get" Key Terms: Font Manager, QuickDraw II, Print Manager, Font Doctor Subject: technical Notes: overcoming the Font Gremlin: font number conflicts, point size System: GS	Mark Collins
Jun 89	13	NDA's 201 -- Menu Mania: Font Boss Distributor/Column: listing Subject: utility Notes: demonstrating a variety of Menu Manager and Font Manager routines System: GS (Pascal)	Tim Swihart

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jun 89	20	Changing the Desktop Color: a new desk accessory Distributor/Column: listing Key Terms: Gary Little, Clock NDA, JumpStart Subject: utility Notes: demonstrates the structure of an NDA, modal dialog elements, ToolBox_Desktop call, colored controls System: GS (assembly)	David R. Hill
Jun 89	25	ProDOS "auxtype" / Display ProDOS Subtype / The Graphic Exchange Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: device driver / Apple Single and Double file formats GS/OS resource forks / CP/M	Robert C. Platt
Jun 89	26	360 Text Toolkit / CDA Power, volume one / 360 Desk Extender Distributor/Column: 360 MicroSystems Subject: programming aids Notes: text drivers and routines / seven Classic Desk Accessories load and unload over 600 CDAs System: GS	rb Ron Berntson
Jun 89	28	Program Writer and APA / non-APW assemblers Distributor/Column: Write-A.P.P.L.E. Subject: tip	
Jun 89	42	A Walk on the Wild Side: C Pointers for Assembly Language Programme Subject: tutorial Notes: a basic introduction for programmers considering C System: C	Paul B. Harwood
Jun 89	48	Micol Advanced BASIC and programming issues Distributor/Column: Launching Into BASIC Key Terms: TML BASIC, metacommand Subject: language Notes: TechUtil: a handy disk utility	Joe Abernathy
Jun 89	55	Filling the Graphics Screen: part 1 Distributor/Column: Programming on the Apple IIGS with APW and Related Products Key Terms: Noah, arc, bucket Subject: technique Notes: flood fill System: GS	Mike Westerfield
Jun 89	58	The Case of the Appending Garbage Distributor/Column: Consultant's Corner Key Terms: CLOSE, APPEND Subject: technical Notes: a subtle difference between DOS 3.3 and ProDOS	Andrew H. Eliason
Jun 89	59	AppleWorks Load Modules (you can delete unnecessary ones) Distributor/Column: Consultant's Corner Key Terms: UPS, ProSel Subject: tip Notes: reducing ambient noise on the GS / Zip Chip vs Rocket Chip vs TransWarp GS/OS and hard disk problems / Losing Memory with System Disk 4.0	Cecil Fretwell / Marc Apfel
Jul 89	8	A Skeleton Desktop Application: Tools Part 1 Key Terms: fragmentation, dereferencing, G-strings Subject: program development Notes: bare bones code that gets a model application up and running System: GS/OS / APW assembler	Sandy Mossberg
Jul 89	15	Merlin 16+: high performance assembly language program development Distributor/Column: Roger Wagner Publishing Key Terms: Hodgepodge, Lichty and Eyes' Hello World Subject: assembler Notes: new version provides full screen editor, IIGS linker, disk utilities System: ProDOS 16 or GS/OS Price: \$125	Bredon, Glen / rb Ken Kashm

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jul 89	22	Programming the Apple IIGS in Assembly Language Subject: book / programming	Lichty and Eyes / rb Ken Ka
Jul 89	23	C Programming on the Apple II Distributor/Column: C Side Tales Key Terms: K&R, ANSI C, APW, language number, pragma Subject: programming Notes: why it's called C / C vs. Pascal C construction: preprocessor, variable declarations, functions	Paul B. Harwood
Jul 89	28	printing with GSBASIC / Apple IIc Plus and memory expansion, RGB mo Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: disk drive connection to IIc Plus / System Utilities for IIE and IIc converting AppleWorks to Macintosh / ProDOS 8 startup disk	Robert C. Platt
Jul 89	41	TechUtil continues Distributor/Column: Launching into BASIC Key Terms: pull date, interleave, Iconix Subject: programming Notes: Micol Advanced BASIC 3.0 / FILE command bug corrected System: Micol BASIC	Joe Abernathy
Jul 89	48	displaying Super Hi-Res Mode (use QuickDraw II) Distributor/Column: The Roar of the Crowd Subject: tip Notes: plotting trig functions (1/90,p127) / print out listing from GSBASIC	Joe Abernathy
Jul 89	50	Filling the Graphics Screen, Part 2 Distributor/Column: Programming on the Apple IIGS with APW and Related Products Subject: technique Notes: translating the flood fill algorithm from Pascal to assembly language System: GS	Mike Westerfield
Jul 89	58	RISCy Business Key Terms: 6502 Subject: technology / hardware Notes: the philosophy of RISC and why it works	Allen and Peter Baum
Jul 89	62	printing ASCII characters higher than 127 on GS Distributor/Column: Consultant's Corner Subject: tip Notes: ESCaping from INPUT / launching P16 applications from BASIC transferring IBM to Apple (via modem)	Mark Collins / Cecil Fretwe
Sep 89	2	The first quarterly edition of Call-A.P.P.L.E. Subject: magazine Notes: the eleven-year old magazine is no longer a 68-page monthly	
Sep 89	6	System Software 5.0: The Times They Are A-Changin' Key Terms: resources Subject: operating system Notes: speed and power: GS/OS 3.0, The Toolbox, The Resource Manager, TextEdit, other tools; Finder, Applications, and Utilities; Fidgeter (5.0 demo) System: GS	by Matt Deatherage
Sep 89	40	Apple IIGS revised Distributor/Column: Apple Subject: computer Notes: memory increased, non-specific slots, sticky keys Price: \$1149 (still)	
Sep 89	41	The IIGS Message Center Subject: technical Notes: a way station for communication between applications System: GS	Sandy Mossberg

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Sep 89	47	NDA's 202: Two Apples Are Better Than One Subject: utility / tutorial Notes: add a second Apple NDA menu System: GS / ORCA/Pascal	Tim Swihart
Sep 89	58	A Beginner's Tour of Toolbox Programming on the Apple IIGS Distributor/Column: Enter the Programmer Key Terms: GUI Subject: tutorial / programming Notes: by using the Toolbox routines you can exceed the capabilities of programs written for pre-GS systems / the main event loop System: TML Pascal	Robert B. Hess
Sep 89	69	TML Pascal II Distributor/Column: TML Systems Subject: language Notes: text editor, Resource Editor System: GS	rb Robert B. Hess
Sep 89	70	C Compilers for Apple II Computers: a comparative review Distributor/Column: Apple, Manx, The Byte Works Subject: language / compiler Notes: APW C, Aztec C65-c, C65-p, C Prime, ORCA/C	rb Paul B. Harwood
Sep 89	84	File Transfers: XModem and Its Derivatives Distributor/Column: Modem Mania Key Terms: Binary II, BLU, NuFX, Shrinkit, CRC Subject: communications Notes: details of file transfer using XModem, XModem CRC, and Relaxed XModem	Michael Fischer
Sep 89	88	Co-existence With APW and ORCA/M Distributor/Column: Merlin 16 / 16+ Subject: assembler Notes: the features of Merlin 16 System: 65816 or 65802	Ken Kashmarek
Sep 89	95	SuperGraphix Distributor/Column: Lynx Computer Products Subject: utility / graphics Notes: control Super Hi-Res graphics via the Applesoft ampersand System: GS Price: \$99 (with SuperMusic), \$44 (SuperPuzzle)	rb Marc Apfelstadt
Sep 89	98	XCMDs: HyperStudio's Ampersand Subject: technique Notes: external commands for HyperStudio	David G. Sparks
Sep 89	102	Help for TechUtil Distributor/Column: Launching into BASIC Key Terms: modal Subject: tutorial / programming Notes: how to implement help in the desktop environment	Joe Abernathy
Sep 89	106	Games and Graphics Programming Distributor/Column: Roar of the Crowd Subject: programming Notes: Micol Advanced BASIC, ORCA/Pascal, Sierra Online's development system, AC/BASIC	Joe Abernathy
Sep 89	107	BASIC.SYSTEM: Changes and Bugs Distributor/Column: Apple Key Terms: BSAVE, BLOAD, V parameter Subject: language Notes: bugs fixed (and added) with BASIC.SYSTEM 1.3	Cecil Fretwell
Sep 89	108	Virus Key Terms: Vaccine Subject: technology Notes: how a virus works and how to protect, prevent, and detect it	Mike Westerfield

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Sep 89	124	A Skeleton Desktop Application: Menus and the Event Loop, Part 2 Subject: tutorial / programming Notes: creating menus and bringing the application to life with an event loop System: APW Assembler	Sandy Mossberg
Sep 89	130	The Inquisitive EXEC, ORCA/APW Style Subject: technique Notes: obtaining input from the keyboard	James A. Hodge
Sep 89	134	algorithms / Numerical Recipes - The Art of Scientific Computing Distributor/Column: A.P.P.L.E. Doctor Subject: tip Notes: using an Epson printer with GS/OS / ProDOS path name, prefix ProDOS 16 multiple prefixes / changing prefixes / Tech Notes	Robert C. Platt
Sep 89	138	A2-Central Developer Conference Subject: conference Notes: Jonathan Eder, Barney Stone, Western Design Center and Bill Mensch animation, native development, cross development, Eric Soldan, bug busting, Roger Wagner, Mike Westerfield, Vince Cooper, Ron Lewin	Weishaar, Tom / rb Cecil Fr
Sep 89	141	To SCSI or not to SCSI? / Hooking up Ehman hard drive to TransWarpe Distributor/Column: Consultant's Corner Subject: tip Notes: INPUT routine with enabled ESC	Vince Cooper / Ken Franklin
Sep 89	143	MS-DOS to Apple II to Mac and Back Distributor/Column: Consultant's Corner Subject: technique Notes: MatchPoint, PC Transporter, MatchMaker, II in a Mac	Carl C. Bringardner
Sep 89	143	IIGS Fonts and Foreign Characters Distributor/Column: Consultant's Corner Subject: tip Notes: loss of memory: quit call parameter list more random number generators	Marc Apfelstadt / Kashmarek
Sep 89	146	use an assembler for IIGS programs / pre-indexed terminology Distributor/Column: Consultant's Corner Key Terms: indexed indirect Subject: tip	Cecil Fretwell / Mike Firth
Jan 90	2	Like Yesterday Distributor/Column: The Inside Track Key Terms: Iowa Gang Subject: history Notes: Kathryn recounts her experiences with Val Golding and Call-A.P.P.L.E. in this final issue	Kathryn Hallgrimson Suther,
Jan 90	3	Full Circle Distributor/Column: The Editor Bytes Back Subject: journal Notes: I wouldn't have missed it for anything. The moving finger, having writ, moves on...	Val J. Golding, editor emer
Jan 90	8	Animation Tricks on the Apple IIGs Subject: technique / animation Notes: bit mapped shapes, simple animation, complex animation, tiling, putting all the pieces together System: 65816 (Merlin 16+)	Brian Greenstone
Jan 90	24	Customizing the Apple IIGS Desktop Distributor/Column: Desktop Magic Subject: technique Notes: addressing some of the new features available in System 5.0 allowing communication with the Window Manager's desktop drawing routine System: Pascal	Vince Cooper

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 90	40	starting up and shutting down tool sets Distributor/Column: Consultants' Corner Key Terms: StartStop record Subject: technique Notes: The Tool Locator on System Disk 5.0 provides two calls that simplify the process of starting up and shutting down tool sets: StartUpTools, ShutDownTools	Sandy Mossberg
Jan 90	154	Font Editors Revisited Distributor/Column: Consultants' Corner Subject: utility Notes: Font Factory GS, GS Font Editor, Font Doctor, Font Editor System: GS	Marc Apfelstadt
Jan 90	155	FingerPrint GSi and Transwarp GS are not compatible Distributor/Column: Consultants' Corner Subject: hardware	Marc Apfelstadt
Jan 90	155	File Resuscitation Distributor/Column: Consultants' Corner Subject: technique Notes: ProSel's Mr. Fixit, RepairWorks	Marc Apfelstadt
Jan 90	42	Roll Your Own Icons Key Terms: FontDoctor, Little Rez, DesignMaster, The Call Box, Genesys Subject: technique / technical Notes: incorporating icons within programs System: GS	Mark Collins
Jan 90	45	Hyperstudio XCMDs in Pascal Key Terms: \$APW Subject: programming technique Notes: compiler code must end with an RTL instruction System: TML Pascal / ORCA Pascal	An Iowa Gang Amalgamation (
Jan 90	51	Custom Utilities -- The Building Blocks of a Programmer Distributor/Column: Enter the Programmer Subject: programming Notes: a Pascal Unit and how you can use it to create a specialized set of tools System: TML Pascal / ORCA Pascal	Robert Hess
Jan 90	67	TML Pascal II / TML Source Code Library II Distributor/Column: TML Systems Subject: language Notes: a brand new environment to same old compiler System: GS System Disk 5.0	rb Robert Hess
Jan 90	74	Stalking the Wild Tab / Source Formatting Distributor/Column: C Side Tales Key Terms: #include, #define, Argc, Argv, Main(), braces Subject: programming Notes: a text filter to convert tabs and carriage return/line feeds C Traps and Pitfalls / ORCA/C	Paul Harwood
Jan 90	84	Classic Desk Accessory Development Without Booting or CDA Loading Distributor/Column: Merlin 16/16+ Key Terms: TransWarp GS Subject: technique Notes: a CDA that will display a memory map of the memory in a IIGS system	Ken Kashmarek
Jan 90	93	The Binary II File Standard and file format Distributor/Column: Modem Mania Key Terms: Gary Little, archiving and compression, BLU, NuFX, ShrinkIt Subject: communications Notes: ensures that file attributes are included when a file is transferred	Michael Fischer

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 90	97	Playing Historian Distributor/Column: NuFX Key Terms: archival, Binary II, BLU, Jim Mensch, Morgan Davis, ShrinkIt, CRC Subject: communications / technical Notes: a way to place information into a more compact format; placing several files together inside the same file	Andy Nicholas
Jan 90	107	Internet Distributor/Column: National Science Foundation Key Terms: ProLine, gateway, networking terminology Subject: network / technology Notes: the forefront of telecommunications is the construction of a data superhighway linking computer users everywhere to the world's computer centers, business networks, research teams -- and to each other	Joe Abernathy
Jan 90	110	Farewell Address / To the Tractor Man Subject: farewell Notes: thanks to Kathryn Hallgrimson Suther, Charlie Stillman, Val Golding, Janine West	Cecil Fretwell / K
Jan 90	111	Everything you've ever wanted to know about monitors... Key Terms: refresh, resolution, NTSC, Synch Subject: monitor / electronics Notes: the different types of monitors and display devices used by Apple over the years: monochrome, color, digital RGB, analog RGB	Elmer, Allen, and Peter Bau
Jan 90	115	Transducers and Light Detectors Distributor/Column: The Weekend Hardware Hacker Key Terms: A-D, breadboard, calibration Subject: homebrew Notes: a simple, inexpensive light transducer that interfaces to the game port	David Gauger
Jan 90	120	Micol BASIC desktop programming Distributor/Column: Launching into BASIC Key Terms: Scrap Manager, AUTOEXEC, C, #INCLUDE, #DEFINE Subject: language Notes: a birthday salute to BASIC a program shell providing the infrastructure and logic for using the desktop in Micol / MD-BASIC, ProTools v2.0, Micol IIe Update, AC/BASIC for System Disk 5.0, Supergraphix 256 / Mastering Applesoft Graphics, Exploring GS/OS and ProDOS 8 / How to Write a Computer Manual System: Micol Advanced BASIC -- version 3.0	Joe Abernathy
Jan 90	127	Trig Graphing Program / GSNumerics Distributor/Column: The Roar of the Crowd Subject: help Notes: problems with TML BASIC: PRINT USING, RANDOMIZE, output to printer loading shape tables	Joe Abernathy
Jan 90	128	Reading Directories in Micol BASIC Distributor/Column: The Roar of the Crowd Subject: technique	Joe Abernathy
Jan 90	130	Null Events and Shutting Down GS/OS, Part 3 Distributor/Column: A Skeleton Desktop Application Subject: technique Notes: adding a few more bones to the skeleton desktop application	Sandy Mossberg
Jan 90	136	From the Iowa Gang Subject: farewell Notes: we want you to know what an extraordinary experience it has been to work with you	Ken Kashmarekt, Cecil Fretw
Jan 90	137	GS Memory Saver Key Terms: swap Subject: utility / technique Notes: an example of how to access the ProDOS MLI from a CDA System: Merlin 16	Jim Lazar

Call-A.P.P.L.E. (1985-1990) - Kula Index

Date	Page	Title	Author
Jan 90	149	Master Tracks Pro for the IIGS Distributor/Column: Passport Designs Key Terms: MIDI, Humanize, Sysex Subject: music Notes: you can now edit... everything! System: GS Price: \$395	rb Marc Apfelstadt
Jan 90	152	ProDOS BSAVE B parameter / IIGS Font Number Conflicts / FONT.LISTS Distributor/Column: Call-A.P.P.L.E. Doctor Subject: help Notes: drawing Super Hi-Res graphics colors / FDHD / hex numbers on ImageWriter GS/OS System 5.0 installation / CDEV / transfer Amiga to Apple via GIF	Robert C. Platt
Jan 90	156	Errata for Programming the Apple IIGS in Assembly Language Subject: book / programming Price: \$30	Lichty, Ron and David Eyes
