

INPUT AND READ CODE	CODE	COMMENT
DC4C:85 DE	474 NOWGET:	STA ENOCHR
DC4E:45 B8	475 LDY TXTPTR	; C IS SET PROPERLY ABOVE
DC50:44 B9	476 ADC #0	
DC52:90 01	477 INY NOWGE1	
DC54:L8	478 JSR STRLIT2	; MAKE A STRING DESCRIPTION
DC57:20 ED E3	479 JSR STP2XT	; SET TEXT POINTER.
DC5A:20 30 E7	480 NOWGE1: JSR STRDN2	; DO ASSIGNMENT.
DC5D:23 DA	481 ;AND COPY	
DC60:4C 72 DC	482 JSR INPONM	
DC63:48 00 02	483 NUMINS: LDA PHA	
DC64:F8 08	484 BEQ BUF	; BLANK INPUT?
DC69:44 EC	485 PLA	
DC6A:45 12 DA	486 JSR FINFLG	; GET VALUE.
DC6F:22 00 87 00	487 BEQ QINTGR	; SET CODES ON FLAG.
DC7E:DC7E	488 JSR CHRGT	; GO DECIDE ON FLOAT.
DC7F:20 02 03	489 JSR TRMOK	; READ LAST CHARACTER.
DC80:44 B9	490 BEQ #44	; A COMMA?
DC84:45 B8	491 JSR #+5	
DC85:44 B9	492 JSR INPPTR	
DC86:44 B9	493 JSR INPPTR+1	
DC87:44 B9	494 JSR INPPTR+1	
DC88:44 B9	495 JSR INPPTR+1	
DC89:44 B9	496 JSR INPPTR+1	
DC8A:44 B9	497 JSR INPPTR+1	
DC8B:44 B9	498 JSR INPPTR+1	
DC8C:44 B9	499 JSR INPPTR+1	
DC8D:44 B9	500 JSR INPPTR+1	
DC8E:44 B9	501 JSR INPPTR+1	
DC8F:44 B9	502 JSR INPPTR+1	
DC90:44 B9	503 JSR INPPTR+1	
DC91:44 B9	504 JSR INPPTR+1	
DC92:44 B9	505 JSR INPPTR+1	
DC93:44 B9	506 JSR INPPTR+1	
DC94:44 B9	507 JSR INPPTR+1	
DC95:44 B9	508 JSR INPPTR+1	
DC96:44 B9	509 JSR INPPTR+1	
DC97:44 B9	510 JSR INPPTR+1	
DC98:44 B9	511 JSR INPPTR+1	
DC99:44 B9	512 JSR INPPTR+1	
DC9A:44 B9	513 JSR INPPTR+1	
DC9B:44 B9	514 JSR INPPTR+1	
DC9C:44 B9	515 JSR INPPTR+1	
DC9D:44 B9	516 JSR INPPTR+1	
DC9E:44 B9	517 JSR INPPTR+1	
DC9F:44 B9	518 JSR INPPTR+1	
DC00:44 B9	519 JSR INPPTR+1	
DC01:44 B9	520 JSR INPPTR+1	
DC02:44 B9	521 JSR INPPTR+1	
DC03:44 B9	522 JSR INPPTR+1	
DC04:44 B9	523 JSR INPPTR+1	
DC05:44 B9	524 JSR INPPTR+1	
DC06:44 B9	525 JSR INPPTR+1	
DC07:44 B9	526 JSR INPPTR+1	
DC08:44 B9	527 JSR INPPTR+1	
DC09:44 B9	528 JSR INPPTR+1	
DC0A:44 B9	529 JSR INPPTR+1	
DC0B:44 B9	530 JSR INPPTR+1	
DC0C:44 B9	531 JSR INPPTR+1	
DC0D:44 B9	532 JSR INPPTR+1	
DC0E:44 B9	533 JSR INPPTR+1	
DC0F:44 B9	534 JSR INPPTR+1	
DC10:44 B9	535 JSR INPPTR+1	
DC11:44 B9	536 JSR INPPTR+1	
DC12:44 B9	537 JSR INPPTR+1	
DC13:44 B9	538 JSR INPPTR+1	
DC14:44 B9	539 JSR INPPTR+1	
DC15:44 B9	540 JSR INPPTR+1	
DC16:44 B9	541 JSR INPPTR+1	
DC17:44 B9	542 JSR INPPTR+1	
DC18:44 B9	543 JSR INPPTR+1	
DC19:44 B9	544 JSR INPPTR+1	
DC1A:44 B9	545 JSR INPPTR+1	
DC1B:44 B9	546 JSR INPPTR+1	
DC1C:44 B9	547 JSR INPPTR+1	
DC1D:44 B9	548 JSR INPPTR+1	
DC1E:44 B9	549 JSR INPPTR+1	
DC1F:44 B9	550 JSR INPPTR+1	
DC20:A3 D9	551 JSR INPPTR+1	
DC21:44 B9	552 JSR INPPTR+1	
DC22:44 B9	553 JSR INPPTR+1	
DC23:44 B9	554 JSR INPPTR+1	
DC24:44 B9	555 JSR INPPTR+1	
DC25:44 B9	556 JSR INPPTR+1	
DC26:44 B9	557 JSR INPPTR+1	
DC27:44 B9	558 JSR INPPTR+1	
DC28:44 B9	559 JSR INPPTR+1	
DC29:44 B9	560 JSR INPPTR+1	
DC2A:44 B9	561 JSR INPPTR+1	
DC2B:44 B9	562 JSR INPPTR+1	
DC2C:44 B9	563 JSR INPPTR+1	
DC2D:44 B9	564 JSR INPPTR+1	
DC2E:44 B9	565 JSR INPPTR+1	
DC2F:44 B9	566 JSR INPPTR+1	
DC30:44 B9	567 JSR INPPTR+1	
DC31:44 B9	568 JSR INPPTR+1	
DC32:44 B9	569 JSR INPPTR+1	
DC33:44 B9	570 JSR INPPTR+1	
DC34:44 B9	571 JSR INPPTR+1	
DC35:44 B9	572 JSR INPPTR+1	
DC36:44 B9	573 JSR INPPTR+1	
DC37:44 B9	574 JSR INPPTR+1	
DC38:44 B9	575 JSR INPPTR+1	
DC39:44 B9	576 JSR INPPTR+1	
DC3A:44 B9	577 JSR INPPTR+1	
DC3B:44 B9	578 JSR INPPTR+1	
DC3C:44 B9	579 JSR INPPTR+1	
DC3D:44 B9	580 JSR INPPTR+1	
DC3E:44 B9	581 JSR INPPTR+1	
DC3F:44 B9	582 JSR INPPTR+1	
DC40:44 B9	583 JSR INPPTR+1	
DC41:44 B9	584 JSR INPPTR+1	
DC42:44 B9	585 JSR INPPTR+1	
DC43:44 B9	586 JSR INPPTR+1	
DC44:44 B9	587 JSR INPPTR+1	
DC45:44 B9	588 JSR INPPTR+1	
DC46:44 B9	589 JSR INPPTR+1	
DC47:44 B9	590 JSR INPPTR+1	
DC48:44 B9	591 JSR INPPTR+1	
DC49:44 B9	592 JSR INPPTR+1	
DC4A:44 B9	593 JSR INPPTR+1	
DC4B:44 B9	594 JSR INPPTR+1	
DC4C:44 B9	595 JSR INPPTR+1	
DC4D:44 B9	596 JSR INPPTR+1	
DC4E:44 B9	597 JSR INPPTR+1	
DC4F:44 B9	598 JSR INPPTR+1	
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DC5B:44 B9	610 JSR INPPTR+1	
DC5C:44 B9	611 JSR INPPTR+1	
DC5D:44 B9	612 JSR INPPTR+1	
DC5E:44 B9	613 JSR INPPTR+1	
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DC63:44 B9	618 JSR INPPTR+1	
DC64:44 B9	619 JSR INPPTR+1	
DC65:44 B9	620 JSR INPPTR+1	
DC66:44 B9	621 JSR INPPTR+1	
DC67:44 B9	622 JSR INPPTR+1	
DC68:44 B9	623 JSR INPPTR+1	
DC69:44 B9	624 JSR INPPTR+1	
DC6A:44 B9	625 JSR INPPTR+1	
DC6B:44 B9	626 JSR INPPTR+1	
DC6C:44 B9	627 JSR INPPTR+1	
DC6D:44 B9	628 JSR INPPTR+1	
DC6E:44 B9	629 JSR INPPTR+1	
DC6F:44 B9	630 JSR INPPTR+1	
DC70:44 B9	631 JSR INPPTR+1	
DC71:44 B9	632 JSR INPPTR+1	
DC72:44 B9	633 JSR INPPTR+1	
DC73:44 B9	634 JSR INPPTR+1	
DC74:44 B9	635 JSR INPPTR+1	
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DC78:44 B9	639 JSR INPPTR+1	
DC79:44 B9	640 JSR INPPTR+1	
DC7A:44 B9	641 JSR INPPTR+1	
DC7B:44 B9	642 JSR INPPTR+1	
DC7C:44 B9	643 JSR INPPTR+1	
DC7D:44 B9	644 JSR INPPTR+1	
DC7E:44 B9	645 JSR INPPTR+1	
DC7F:44 B9	646 JSR INPPTR+1	
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DC81:44 B9	648 JSR INPPTR+1	
DC82:44 B9	649 JSR INPPTR+1	
DC83:44 B9	650 JSR INPPTR+1	
DC84:44 B9	651 JSR INPPTR+1	
DC85:44 B9	652 JSR INPPTR+1	
DC86:44 B9	653 JSR INPPTR+1	
DC87:44 B9	654 JSR INPPTR+1	
DC88:44 B9	655 JSR INPPTR+1	
DC89:44 B9	656 JSR INPPTR+1	
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DC8B:44 B9	658 JSR INPPTR+1	
DC8C:44 B9	659 JSR INPPTR+1	
DC8D:44 B9	660 JSR INPPTR+1	
DC8E:44 B9	661 JSR INPPTR+1	
DC8F:44 B9	662 JSR INPPTR+1	
DC90:44 B9	663 JSR INPPTR+1	
DC91:44 B9	664 JSR INPPTR+1	
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DC98:44 B9	671 JSR INPPTR+1	
DC99:44 B9	672 JSR INPPTR+1	
DC00:44 B9	673 JSR INPPTR+1	
DC01:44 B9	674 JSR INPPTR+1	
DC02:44 B9	675 JSR INPPTR+1	
DC03:44 B9	676 JSR INPPTR+1	
DC04:44 B9	677 JSR INPPTR+1	
DC05:44 B9	678 JSR INPPTR+1	
DC06:44 B9	679 JSR INPPTR+1	
DC07:44 B9	680 JSR INPPTR+1	
DC08:44 B9	681 JSR INPPTR+1	
DC09:44 B9	682 JSR INPPTR+1	
DC0A:44 B9	683 JSR INPPTR+1	
DC0B:44 B9	684 JSR INPPTR+1	
DC0C:44 B9	685 JSR INPPTR+1	
DC0D:44 B9	686 JSR INPPTR+1	
DC0E:44 B9	687 JSR INPPTR+1	
DC0F:44 B9	688 JSR INPPTR+1	
DC10:44 B9	689 JSR INPPTR+1	
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DC12:44 B9	691 JSR INPPTR+1	
DC13:44 B9	692 JSR INPPTR+1	
DC14:44 B9	693 JSR INPPTR+1	
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DC22:44 B9	701 JSR INPPTR+1	
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DC28:44 B9	707 JSR INPPTR+1	
DC29:44 B9	708 JSR INPPTR+1	
DC2A:44 B9	709 JSR INPPTR+1	
DC2B:44 B9	710 JSR INPPTR+1	
DC2C:44 B9	711 JSR INPPTR+1	
DC2D:44 B9	712 JSR INPPTR+1	
DC2E:44 B9	713 JSR INPPTR+1	
DC2F:44 B9	714 JSR INPPTR+1	
DC30:44 B9	715 JSR INPPTR+1	
DC31:44 B9	716 JSR INPPTR+1	
DC32:44 B9	717 JSR INPPTR+1	
DC33:44 B9	718 JSR INPPTR+1	
DC34:44 B9	719 JSR INPPTR+1	
DC35:44 B9	720 JSR INPPTR+1	
DC36:44 B9	721 JSR INPPTR+1	
DC37:44 B9	722 JSR INPPTR+1	
DC38:44 B9	723 JSR INPPTR+1	
DC39:44 B9	724 JSR INPPTR+1	
DC40:44 B9	725 JSR INPPTR+1	
DC41:44 B9	726 JSR INPPTR+1	
DC42:44 B9	727 JSR INPPTR+1	
DC43:44 B9	728 JSR INPPTR+1	
DC44:44 B9	729 JSR INPPTR+1	
DC45:44 B9	730 JSR INPPTR+1	
DC46:44 B9	731 JSR INPPTR+1	
DC47:44 B9	732 JSR INPPTR+1	
DC48:44 B9	733 JSR INPPTR+1	
DC49:44 B9	734 JSR INPPTR+1	
DC50:44 B9	735 JSR INPPTR+1	
DC51:44 B9	736 JSR INPPTR+1	
DC52:44 B9	737 JSR INPPTR+1	
DC53:44 B9	738 JSR INPPTR+1	
DC54:44 B9	739 JSR INPPTR+1	
DC55:44 B9	740 JSR INPPTR+1	
DC56:44 B9	741 JSR INPPTR+1	
DC57:44 B9	742 JSR INPPTR+1	
DC58:44 B9	743 JSR INPPTR+1	
DC59:44 B9	744 JSR INPPTR+1	
DC60:44 B9	745 JSR INPPTR+1	
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DC62:44 B9	747 JSR INPPTR+1	
DC63:44 B9	748 JSR INPPTR+1	
DC64:44 B9	749 JSR INPPTR+1	
DC65:44 B9	750 JSR INPPTR+1	
DC66:44 B9	751 JSR INPPTR+1	
DC67:44 B9	752 JSR INPPTR+1	
DC68:44 B9	753 JSR INPPTR+1	
DC69:44 B9	754 JSR INPPTR+1	
DC70:44 B9	755 JSR INPPTR+1	
DC71:44 B9	756 JSR INPPTR+1	
DC72:44 B9	757 JSR INPPTR+1	
DC73:44 B9	758 JSR INPPTR+1	
DC74:44 B9	759 JSR INPPTR+1	
DC75:44 B9	760 JSR INPPTR+1	
DC76:44 B9	761 JSR INPPTR+1	
DC77:44 B9	762 JSR INPPTR+1	
DC78:44 B9	763 JSR INPPTR+1	
DC79:44 B9	764 JSR INPPTR+1	
DC7A:44 B9	765 JSR INPPTR+1	
DC7B:44 B9	766 JSR INPPTR+1	
DC7C:44 B9	767 JSR INPPTR+1	
DC7D:44 B9	768 JSR INPPTR+1	
DC7E:44 B9	769 JSR INPPTR+1	
DC7F:44 B9	770 JSR INPPTR+1	
DC80:44 B9	771 JSR INPPTR+1	
DC81:44 B9	772 JSR INPPTR+1	
DC82:44 B9	773 JSR INPPTR+1	
DC83:44 B9	774 JSR INPPTR+1	
DC84:44 B9	775 JSR INPPTR+1	
DC85:44 B9	776 JSR INPPTR+1	
DC86:44 B9	777 JSR INPPTR+1	
DC87:44 B9	778 JSR INPPTR+1	
DC88:44 B9	779 JSR INPPTR+1	
DC89:44 B9	780 JSR INPPTR+1	
DC90:44 B9	781 JSR INPPTR+1	
DC91:44 B9	782 JSR INPPTR+1	
DC92:44 B9	783 JSR INPPTR+1	
DC93:44 B9	784 JSR INPPTR+1	
DC94:44 B9	785 JSR INPPTR+1	
DC95:44 B9	786 JSR INPPTR+1	
DC96:44 B9	787 JSR INPPTR+1	
DC97:44 B9	788 JSR INPPTR+1	
DC98:44 B9	789 JSR INPPTR+1	
DC99:44 B9	790 JSR INPPTR+1	
DC00:44 B9	791 JSR INPPTR+1	
DC01:44 B9	792 JSR INPPTR+1	
DC02:44 B9	793 JSR INPPTR+1	
DC03:44 B9	794 JSR INPPTR+1	
DC04:44 B9	795 JSR INPPTR+1	
DC05:44 B9	796 JSR INPPTR+1	
DC06:44 B9	797 JSR INPPTR+1	
DC07:44 B9	798 JSR INPPTR+1	
DC08:44 B9	799 JSR INPPTR+1	
DC09:44 B9	800 JSR INPPTR+1	
DC0A:44 B9	801 JSR INPPTR+1	
DC0B:44 B9	802 JSR INPPTR+1	
DC0C:44 B9	803 JSR INPPTR+1	
DC0D:44 B9	804 JSR INPPTR+1	
DC0E:44 B9	805 JSR INPPTR+1	
DC0F:44 B9	806 JSR INPPTR+1	
DC10:44 B9	807 JSR INPPTR+1	
DC11:44 B9	808 JSR INPPTR+1	
DC12:44 B9	809 JSR INPPTR+1</td	

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	INPUT AND READ CODE	
04 ROMSOFTC		
DCB9::C8	532	INY
DCB9::B1 85 7C	533	STA (TXTPTR),Y ;HOW IS IT?
DCB9::A4 81 B8	534	NOLIN:
DCB9::20 93 D9	535	LDA TAX
DCB9::E0 83 DC	536	JSR ADDON
DCB9::D0 2B DC	537	Cpx #DATATK
DCB9::10 4C 7F	538	BNE DATL0P
DCB9::33 45 80	539	JMP DATBK1
DCB9::68 44 80	540	LDA INPPTR
DCB9::4C 46 15	541	LDY INPPTR+1
DCB9::10 53 D8	542	LDX INPFLG
DCB9::0F 40 0F	543	BPL VARYO
DCB9::33 B1 7F	544	RESFIN
DCB9::03 40 0F	545	VARYO: LDY #0
DCB9::03 F0 07	546	;COMMA OR COLON LDA (INPPTR),Y ;LAST DATA CHR COULD HAVE BEEN
DCB9::03 F0 07	547	;COLON BUT SHOULD BE NULL;IT IS NUL
DCB9::03 F0 A9 DF	548	BEQ INPRITS
DCB9::03 40 DC DB	549	LDA #<EXIGNT
DCB9::03 40 3A DB	550	STROUT
DCB9::03 40 3A DB	551	LDY #TYPE "?EXTRA IGNORED"
DCB9::03 40 3A DB	552	JMP INPRITS
DCB9::03 40 3A DB	553	RTSC
DCB9::03 40 3A DB	554	EXIGNT: ASC
DCB9::03 40 3A DB	555	DFB 13
DCB9::03 40 3A DB	556	TRYAGN: ASC 0
DCB9::03 40 3A DB	557	DFB 13
DCB9::03 40 3A DB	558	0
DCB9::03 40 3A DB	559	REENTER
DCB9::03 40 3A DB	560	DFB 0
DCB9::03 40 3A DB	561	0
DCB9::03 40 3A DB	562	0
DCB9::03 40 3A DB	563	0
DCB9::03 40 3A DB	564	0
DCB9::03 40 3A DB	565	0
DCB9::03 40 3A DB	566	0
DCB9::03 40 3A DB	567	0
DCB9::03 40 3A DB	568	0
DCB9::03 40 3A DB	569	0
DCB9::03 40 3A DB	570	0
DCB9::03 40 3A DB	571	0
DCB9::03 40 3A DB	572	0
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DCB9::03 40 3A DB	578	0
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DCB9::03 40 3A DB	581	0
DCB9::03 40 3A DB	582	0
DCB9::03 40 3A DB	583	0
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04 ROMSOFTC          HE NEX
DD50:85 B9           619      STA      TXIPTR+1
DD52:4C D2 D7        620      JMP     NEWSTT
DD55:8A             621      TXA      NEWGO:
DD56:09 11           622      ADC     LOOPUN:
DD58:AA             623      TAX      #15+2
DD59:9A             624      TXS      #ADD 16 WITH CARRY.
DD5A:2D 87 00         625      JSR     CHRGET
DD5D:C9 2C           626      CMP     #44
DD5F:D0 F1           627      BNE     #NEWSCO
DD61:00              628      JSR     CHRGET
DD64:20 00           629      JSR     GETFOR
DD67:FF DC           630      IPNTR: VARPNTR IS THE STK PTR WHICH
                               NEVER MATCHES ANY POINTER
                               IN JSR TO PUT ON DUMMY NEWSTT ADDR.
DD67:                         631
                               632

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OPERAND	CODE	COMMENT
DDE8:80	73	DE35
DDBA:69	07	DE35
DDBC:77	77	DE35
DDC0:95	11	DDC5
DDC0:03	03	DDC5
DDC2:42	97	EE5
DDC5:42	95	FFE
DDC9:04	5E	
DDCC:AB	5E	
DDCD:63	82	DO
DDCE:02	82	DE3A
DDD3:20	6A	DO
DDD6:48	6A	DO
DDD7:20	FD	DO
DDDA:68	07	DOPREC:
DDDB:14	87	DDF6
DDDF:17	17	DDF6
DDDE:44	59	DE38
DDDE:FD	5F	DE43
DDDE:46	11	
DDDE:3A	2A	FINREL:
DDDE:46	83	DE3E
DDDE:40	02	DE3E
DDDE:04	02	DE3E
DDDE:04	83	
DDF2:40	83	
DDF2:85	89	DOCD
DDF4:00	07	DOCD
DDF6:02	82	DO
DDF9:80	48	DE43
DDFB:90	02	DDD6
DDFD:39	84	DO
DE00:48	48	DO
DE01:39	83	DO
DE04:48	48	DE
DE05:20	10	DE
DE08:45	89	DE
DE0A:45	89	DE
DE0D:45	C9	DE
DE12:42	82	DO
DE15:48	82	DO
DE16:48	83	SE
DE17:88	83	SE
DE19:69	5F	
DE1B:33	5F	
DE1C:33	5F	
DE1E:93	5F	
DE1F:48	48	DE20:20
DE23:45	72	L8

BCS  
ADC  
BCC  
ADC  
BNE  
\*\*+5  
CAT  
ADC  
STA  
ASL  
ADC  
TAY  
PLA  
CMP  
BCS  
JSR  
PHA  
DOPRE1  
PLA  
LDY  
BPL  
BEQ  
BNE  
LSR  
VALTYP  
PULSTK  
VALTYP  
A  
TXTPTR  
FINRE2  
BNE  
TXTPTR  
DEC  
LDX  
#PTDORL-OPTAB  
STA  
OPMASK  
QPREC  
BNE  
CHKNUM  
CALL  
OPTAB,Y  
PULSTK  
DOPRE2  
BCS  
LDA  
OPTAB+2,Y  
OPTAB+1,Y  
LDA  
PHA  
JSLR  
OPMASK  
LPOPER  
SNERR  
FACTSGN  
OPTAB,Y  
TAY  
PLA  
INDEX1  
INDEX1  
INDEX1+1  
PLA  
STA  
TYA  
PHA  
ROUND  
JSR  
LDA  
FACLO

;NOT AN OPERATOR.  
;NOT AN OPERATOR.  
;C=1.  
;ONLY IF A=0 AND VALTYP=-1 (A STR).  
;GET BACK ORIGINAL A.  
;MULTIPLY BY 2.  
;SET UP FOR LATER PRECEDENCE.  
;IS OLD PRECEDENCE GREATER OR EQUAL?  
;SET UP FOR LATER PRECEDENCE.  
;CAN'T BE STRING HERE.  
;SAVE OLD PRECEDENCE.  
;SET A RETURN ADDRESS FOR OP.  
;PULL OFF PREVIOUS PRECEDENCE.  
;GET POINTER TO OP.  
;THAT'S A REAL OPERATOR.  
;DONE?  
;DONE!  
;GET VALUE TYPINTO "C".  
;PUT VALTYP INTO LOW ORDER BIT OF MASK.  
;DECREMENT TEXT POINTER.

;MAKE YREG POINT AT OPERATOR ENTRY.  
;SAVE IT ALL. BR ALWAYS.  
;LAST PRECEDENCE IS GREATER?  
;NO SAVE ARGUMENT AND GET OTHER OPERAND.  
;DISP ADDR GOES ONTO STACK.

;SAVE FAC ON STACK UNPACKED.  
;ACC A MAY BE MASK FOR REL.  
;GO TO AN ERROR.  
;GET HIGH PRECEDENCE.  
;GET POINTERS INTO STACK.

;START WITH SIGN SET UP.  
;PUT ROUNDED FAC ON STACK.  
;ENY POINT TO SKIP STORING SIGN.





OS ROMSOFTD	FORMULA EVALUATION CODE.	29-MAR-84 08:16 PAGE 56
DEEEB::B1 A0	176 LDA TAX	
DEEDD::AA A0	177 LDA (FACMO),Y	
DEEEF::C8 A0	178 LDA (FACMO),Y	
DEF1::A8 F2 E2	179 LDA GIVAYF *	
DEF2::8A F2 E2	180 JEQU *	
DEF3::4C F2 E2	181 JEQUP *	
DEF6::4C F2 EA DEF6	182 JSTAVY: 600000:	
DEF6::4C F2 EA DEF6	183 MOVFM	
DEF9::20 B1 00	184 CHRGET	
DEF9::20 B1 F1	185 PLOTNS	
DEFUC::20 EC F1	186 TXA FIRST	
DEFUF::8A F0 F0	187 JJSR RDSCRN	
DEF02::20 A6 F7 0001	188 LDY LOLLY	
DEF03::5 DF05::A8	189 DO ELSE \$F871	
DF05::A8 01 E3	190 FIN SNGFLT	
DF06::20 01 E3	191 JJSR CHKGCLS	
DF09::4C 83	192 CMP #SCRNFN	
DF0C::C9 D7	193 ASL D0SCRN	
DF0E::FD E9 DEF9	194 PHA A	
DF10::0A	195 TXA CHRGET	
DF11::4A	196 CPX #2*LASTNUM-256+1	
DF12::4A	197 BCC OKNORM ;SET UP FORYNCHK	
DF13::20 B1 00	198 ;IS IT PAST "LAŠNUM"?	
DF16::E0 CF 90	199 ;NO, MUST BE NORMAL FUNCT	
DF18::90 20 DF3A	200 ;FUNCTIONS TAKE A SINGLE ARGUMENT	
DF1A::	201 ;WHICH ASSERTAINS THAT VALTYPE=0 (NUMERIC)	
DF1A::	202 ;NORMAL FUNCTIONS THAT RETURN STRING RESULTS	
DF1A::	203 ;(E.G., CHRS) MUST POP OFF THAT RETURN ADDR AND	
DF1A::	204 ;RETURN DIRECTLY TO FRMEVL	
DF1A::	205 ;SO-CALLED FUNNY FUNCTIONS CAN TAKE MORE THAN ONE ARG	
DF1A::	206 ;THE FIRST OF WHICH MUST BE STRING AND THE SECOND OF WHICH	
DF1A::	207 ;MUST BE A NUMBER BETWEEN 0 AND 255.	
DF1A::	208 ;CLOSED PARENTHESIS MUST BE CHECKED AND RETURN IS DIRECT	
DF1A::	209 ;TO FRMEVL WITH THE TEXT PTR POINTING BEYOND THE PARENTHESIS.	
DF1A::	210 ;THE POINTER TO THE DESCRIPTOR OF THE STRING ARGUMENT	
DF1A::	211 ;IS STORED ON THE STACK UNDERNEATH THE VALUE OF THE	
DF1A::	212 ;INTEGER ARGUMENT	
DF1A::	213 CHKPN ;CHECK FOR AN OPEN PARENT	
DF1A::	214 FRMEVL ;EAT OPEN PAREN AND FIRST	
DF1A::	215 JSR CHKCOM ;TWO ARGS SO COMMA MUST	
DF1A::	216 JSR CHKSTR ;MAKE SURE FIRST WAS STRI	
DF1A::	217 PLA ;GET NCTION NUMBER.	
DF1A::	218 TPA FACMO+1	
DF1D::20 33 DE	219 LDA PHA	
DF1D::20 73 DD	220 TPA	
DF23::20 8E DE	221 LDA PHA	
DF26::6C DD	222 TPA	
DF27::A4 41	223 LDA PHA	
DF28::A5 40	224 TPA	
DF2A::48 48	225 LDA PHA	
DF2B::45 48	226 TPA	
DF2C::48 48	227 LDA PHA	
DF2D::43 43	228 TPA	
JSR	229 LDA PHA	
JSR	230 TPA	
JSR	231 TPA	
JSR	232 TPA	
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JSR	623 TPA	
JSR	624 TPA	
JSR	625 TPA	
JSR	626 TPA	



DS ROMSOFT	FORMULA EVALUATION CODE.
DFA1::A6 90	292 LDX DSC TMP
DFA3::A9 FF	293 LDA #100-1
DFA5::85 A2	294 STA FAC SGN
DFA7::4D FF	295 LDX #255
DFA9::E8	296 TINY
DFAA::C9	297 NXTCMP:
DFAB::CA	298 DEX
DFACE::D0 07	299 BNE GETCMP
DFAE::A3 A2	300 LDX FAC SGN
DFB0::00 01	301 BMI DO CMP
DFB2::30 OF	302 CHARACTERS ARE THE SAME.
DFB3::18 OC	303 SET THEN.
DFB3::90 AC	304 CLC
DFB5::B1 A8	305 DOCMP (ARGM0) Y
DFB7::D1 9E	306 CMP (DSC TMP+1), Y
DFB9::F0 FF	307 BEQ NXT CMP
DFBBA::42 FF 02	308 LDX #100-1
DFBD::42 01	309 BCS DOCMP
DFBF::B0 01	310 LDX #1
DFC1::E8	311 INX
DFC1::30 4	312 TXA
DFC1::90 OC	313 ROL
DFC1::B1 9E	314 AND DOMASK
DFC1::D1 FF	315 BEQ GOFLOT
DFC1::30 09	316 LDA #1
DFC1::31 01	317 JMP FLOAT
DFC1::31 24	318 CONINT
DFC1::31 23	319 JSR PREAD
DFC1::31 22	320 SNGFLT
DFC1::31 21	321 F91E EQU \$FB1E
DFCA::16	322 DFCA
DFCA::F0 02	323 DFC4::49 01
DFCA::EE 03	324 DFC4::4C 01
DFCA::EE FB	325 DFC4::42 00
DFCA::E3 01	326 DFD0::4C 01
DFD6::	327 DFD0::4C 01

; LENGTH OF FAC IS SHORTER.  
 ; GET A MINUS 1 FOR NEGATIVES.  
 ; KEEP FOR LATER.  
 ; SET POINTER TO FIRST STRING. (ARG.).  
 ; TO LOOP PROPERLY.  
 ; ANY CHARACTERS LEFT TO COMPARE?  
 ; NOT DONE YET.  
 ; USE SIGN OF LENGTH DIFFERENCE.  
 ; ALWAYS BRCH.  
 ; GET NEXT CHAR TO COMPARE.  
 ; SAME?  
 ; YES. TRY FURTHER DIFFERENCE.  
 ; SET A POSITION BACK TOGETHER.  
 ; PUT STACK BACK.  
 ; SET A NEGATIVE DIFFERENCE.  
 ; -1 TO 1, 0 TO 2, 1 TO 4.  
 ; MAP 0 TO 0 ALL OTHERS TO 1 INTO FAC.  
 ; FLOAT THE ONE-BYTE RESULT 1 INTO FAC.  
 ; GET X = PDL#  
 ; READ



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05 ROMSOFTU IMENSION AN          VARNAME      VARNAME
E032::05 81           382             VARNAME      VARNAME
E034::84 81           383             TURNON:     #128       ;TURN ON BOTH HIGH BITS.
E037::09 80           385             STXA        TAX
E039::44 00           387             JSR         JSTX      ;TURN ON MSB OF SECOND CHARACTER.
E03D::05 31           00               ORA         SBC      ;GET CHARACTER AFTER $
E040::33 82           03               ORA         SBNE     ;STORE AWAY SECOND CHARACTER.
E041::05 14           03               ORA         JMP      ;ADD FLAG WHETHER TO ALLOW ARRAYS SET.
E042::09 23           03               ORA         *#40      ;CHECK FOR ( ) WON'T MATCH IF SUBFLG SET.
E043::05 14           03               ORA         *+5      ;IT IS!
E044::02 03           03               ORA         SUBFLG   ;IN STORE OR RECALL?
E045::07 E1           E049             STRNAM:    ISARY    ;IN CASE OF USER FUNCTIONS
E046::0F E04F          E04F             GARRY    *+4      ;ALLOW SUBSCRIPTS AGAIN.
E047::07 E046          E046             GARRY    #0      ;PLACE TO START SEARCH.
E048::05 64           03               ORA         SUBFLG   ;LOWTR+1
E049::05 64           03               ORA         VARTAB  VARTAB+1
E050::05 64           03               ORA         VARTAB  LOWTR+1
E051::05 64           03               ORA         VARTAB  VARYTAB+1
E052::05 64           03               ORA         LOPFN   LOPFN
E053::05 64           03               ORA         ARYTAB  ARYTAB
E054::05 64           03               ORA         BEQ      NOTFNS
E055::05 64           03               ORA         LDA      VARNAM
E056::05 64           03               ORA         CMP      (LOWTR),Y
E057::05 64           03               ORA         BNE      NOTIT
E058::05 64           03               ORA         LDY      VARNAM+1
E059::05 64           03               ORA         CMP      (LOWTR),Y
E060::05 64           03               ORA         BEQ      NOTIT
E061::05 64           03               ORA         LDY      FINPTR,Y
E062::05 64           03               ORA         CLC      NOTIT:
E063::05 64           03               ORA         ADC      LOWTR
E064::05 64           03               ORA         BCC      #6+1
E065::05 64           03               ORA         BINX   ;MAKES NO DIF AMONG TYPES.
E066::05 64           03               ORA         BNE      STXFND
E067::05 64           03               ORA         BEQ      LETTER/CARRY OFF=NOT A LETTER.
E068::05 64           03               ORA         ISLET:  CMP      ;ALWAYS BRANCHES-
E069::05 64           03               ORA         BCC      #A
E070::05 64           03               ORA         SEC      #Z+1 ;IF LESS THAN "A", RET.
E071::05 64           03               ORA         SBC      $100--Z--1 ;RESET CARRY IF A-GT. "Z".
E072::05 64           03               ORA         PLA      ;RETURN TO CALLER.
E073::05 64           03               ORA         PHA      ;CHECK WHO'S CALLING.
E074::05 64           03               ORA         BCC      ;RESTORE WHT
E075::05 64           03               ORA         SEC      ;IS RET CALLING?
E076::05 64           03               ORA         SBC      ;NO, CARRY ON.
E077::05 64           03               ORA         PLA      #TSX
E078::05 64           03               ORA         PHA      255,X
E079::05 64           03               ORA         BCC      #<ISVRET
E080::05 64           03               ORA         SEC      NOTEVL
E081::05 64           03               ORA         SBC      NOTEVL
E082::05 64           03               ORA         PLA      #ZERO
E083::05 64           03               ORA         PHA      LDY
E084::05 64           03               ORA         BCC      #ZERO
E085::05 64           03               ORA         SEC      ;SET UT PTR TO SIMULATED ERO.
E086::05 64           03               ORA         SBC      LDY
E087::05 64           03               ORA         PLA      LDY
E088::05 64           03               ORA         PHA      LDY
E089::05 64           03               ORA         BCC      LDY
E090::05 64           03               ORA         SEC      LDY
E091::05 64           03               ORA         SBC      LDY
E092::05 64           03               ORA         PLA      LDY
E093::05 64           03               ORA         PHA      LDY
E094::05 64           03               ORA         BCC      LDY
E095::05 64           03               ORA         SEC      LDY
E096::05 64           03               ORA         SBC      LDY
E097::05 64           03               ORA         PLA      LDY
E098::05 64           03               ORA         PHA      LDY
E099::05 64           03               ORA         BCC      LDY
E09A::05 64           03               ORA         SEC      LDY
E09B::05 64           03               ORA         SBC      LDY
E09C::05 64           03               ORA         PLA      LDY
E09D::05 64           03               ORA         PHA      LDY
E09E::05 64           03               ORA         BCC      LDY
E09F::05 64           03               ORA         SEC      LDY

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05 ROMSOFTD 29-MAR-84 08:16 PAGE 62
ULTIPLE DI ;POINT TO ENTRMSS. G CLR'D BY ASL.
494 FMAPTR: COUNT
495          LDA #5
496          ADC LOWTR
497          ADC LOWTR+1
498          LDY JSRGH
499          BCC INY
500          STA ARYPNT
501          STA ARYPNT+1
502          RTS
503          DFB 144128,0,0 ;32768
504          ;FORMULA FROM THE CURRENT POSITION AND
505          ;INTDX READS A FORMULA FROM THE CURRENT POSITION AND
506          ;INTDX INTO A POSITIVE INTEGER FACMO&LD. NEGATIVE ARGUMENTS
507          ;LEAVING THE RESULTIN FACMO&LD. ARE NOT ALLOWED.
508          ;ARE NOT ALLOWED.
509          INTDX: CHRTGT
510          JSR FRMNUM
511          POSINT: LDA FACSGN
512          JSR BMLD
513          AYINT: LDA FACEXP
514          CMP #144
515          BCC QINTGO
516          LDA #N32768
517          LDY #<N32768
518          JSR FCMP
519          BNE FCERR
520          QINTGO: QINT
521          ;FORMAT OF ARRAYS IN CORE.
522          DESCRIPTOR: LOWBYTE = FIRST CHARACTER, (200 BIT IS STRING FLAG)
523          HHBYTE = SECOND CHARACTER (200 BIT IS STRING FLAG).
524          LENGTH OF CORE IN BYTES (INCLUDES EVERYTHING).
525          NUMBER OF DIMENSIONS FOR EACH DIMENSION STARTING WITH THE FIRST A LIST
526          (2 BYTES EACH) OF THE MAX INDICE+1
527          THE VALUES
528          ISARY: LD A SUBFLG
529          LDN STARTSRCH ;IF FOR STORE ORRECALL
530          LDN DIMFLG
531          ORA INTFLG
532          PHA VALTYP
533          LDY #0
534          TYA
535          LD A SUBFLG
536          LDN STARTSRCH ;SAVE DIMFLG FOR RECURSION.
537          LDN DIMFLG
538          ORA INTFLG
539          PHA INTIDX
540          LDY #0
541          TYA
542          LD A SUBFLG
543          LDN STARTSRCH ;SAVE VALTYP FOR RECURSION
544          LDN DIMFLG
545          ORA INTFLG
546          PHA INTIDX
547          LDY #0
548          TYA
549          LD A SUBFLG
550          LDN STARTSRCH ;SET NUMBER OF DIMENSIONS TO ZERO.
551          LDN DIMFLG
552          ORA INTFLG
553          PHA INTIDX
554          LDY #0
555          TYA
556          LD A SUBFLG
557          LDN STARTSRCH ;SAVE LOOKS INTO FACMO&LD.
558          LDN DIMFLG
559          ORA INTFLG
560          PHA INTIDX
561          LDY #0
562          TYA
563          LD A SUBFLG
564          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
565          LDN DIMFLG
566          ORA INTFLG
567          PHA INTIDX
568          LDY #0
569          TYA
570          LD A SUBFLG
571          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
572          LDN DIMFLG
573          ORA INTFLG
574          PHA INTIDX
575          LDY #0
576          TYA
577          LD A SUBFLG
578          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
579          LDN DIMFLG
580          ORA INTFLG
581          PHA INTIDX
582          LDY #0
583          TYA
584          LD A SUBFLG
585          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
586          LDN DIMFLG
587          ORA INTFLG
588          PHA INTIDX
589          LDY #0
590          TYA
591          LD A SUBFLG
592          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
593          LDN DIMFLG
594          ORA INTFLG
595          PHA INTIDX
596          LDY #0
597          TYA
598          LD A SUBFLG
599          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
600          LDN DIMFLG
601          ORA INTFLG
602          PHA INTIDX
603          LDY #0
604          TYA
605          LD A SUBFLG
606          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
607          LDN DIMFLG
608          ORA INTFLG
609          PHA INTIDX
610          LDY #0
611          TYA
612          LD A SUBFLG
613          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
614          LDN DIMFLG
615          ORA INTFLG
616          PHA INTIDX
617          LDY #0
618          TYA
619          LD A SUBFLG
620          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
621          LDN DIMFLG
622          ORA INTFLG
623          PHA INTIDX
624          LDY #0
625          TYA
626          LD A SUBFLG
627          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
628          LDN DIMFLG
629          ORA INTFLG
630          PHA INTIDX
631          LDY #0
632          TYA
633          LD A SUBFLG
634          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
635          LDN DIMFLG
636          ORA INTFLG
637          PHA INTIDX
638          LDY #0
639          TYA
640          LD A SUBFLG
641          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
642          LDN DIMFLG
643          ORA INTFLG
644          PHA INTIDX
645          LDY #0
646          TYA
647          LD A SUBFLG
648          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
649          LDN DIMFLG
650          ORA INTFLG
651          PHA INTIDX
652          LDY #0
653          TYA
654          LD A SUBFLG
655          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
656          LDN DIMFLG
657          ORA INTFLG
658          PHA INTIDX
659          LDY #0
660          TYA
661          LD A SUBFLG
662          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
663          LDN DIMFLG
664          ORA INTFLG
665          PHA INTIDX
666          LDY #0
667          TYA
668          LD A SUBFLG
669          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
670          LDN DIMFLG
671          ORA INTFLG
672          PHA INTIDX
673          LDY #0
674          TYA
675          LD A SUBFLG
676          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
677          LDN DIMFLG
678          ORA INTFLG
679          PHA INTIDX
680          LDY #0
681          TYA
682          LD A SUBFLG
683          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
684          LDN DIMFLG
685          ORA INTFLG
686          PHA INTIDX
687          LDY #0
688          TYA
689          LD A SUBFLG
690          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
691          LDN DIMFLG
692          ORA INTFLG
693          PHA INTIDX
694          LDY #0
695          TYA
696          LD A SUBFLG
697          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
698          LDN DIMFLG
699          ORA INTFLG
700          PHA INTIDX
701          LDY #0
702          TYA
703          LD A SUBFLG
704          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
705          LDN DIMFLG
706          ORA INTFLG
707          PHA INTIDX
708          LDY #0
709          TYA
710          LD A SUBFLG
711          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
712          LDN DIMFLG
713          ORA INTFLG
714          PHA INTIDX
715          LDY #0
716          TYA
717          LD A SUBFLG
718          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
719          LDN DIMFLG
720          ORA INTFLG
721          PHA INTIDX
722          LDY #0
723          TYA
724          LD A SUBFLG
725          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
726          LDN DIMFLG
727          ORA INTFLG
728          PHA INTIDX
729          LDY #0
730          TYA
731          LD A SUBFLG
732          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
733          LDN DIMFLG
734          ORA INTFLG
735          PHA INTIDX
736          LDY #0
737          TYA
738          LD A SUBFLG
739          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
740          LDN DIMFLG
741          ORA INTFLG
742          PHA INTIDX
743          LDY #0
744          TYA
745          LD A SUBFLG
746          LDN STARTSRCH ;GET BACK ALL ... WE'RE HOME.
747          LDN DIMFLG
748          ORA INTFLG
749          PHA INTIDX
750          LDY #0
751          TYA

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      ;PUSH DIMFLG AND VALTYP FURTHER.
      ;PUT INDICE ONTO STACK
      ;UNDER DIMFLG AND VALTYP.

      ;INCREMENT # OF DIMS
      ;GET TERMINATING CHARACTER.
      ;A COMMA?
      ;YES COUNT OF DIMS
      ;MUST BE CLOSED PAREN.
      ;GET VALTYP AND

      ;INTFLGL
      ;DIMFLG OFF STACK
      ;PLACE TO START SEARCH.

      ;END OF ARRAYS?
      ;LOWTR+1
      ;STREND+1
      ;STREND
      ;NOT FOD
      ;#0
      ;CLOWTR),Y
      ;VARNAM
      ;NMARY1
      ;VARNAM+1
      ;CLOWTR),Y
      ;GOTARY
      ;NMARY1:
      ;CLOWTR),Y
      ;LOWTR

      ;COMPARE HIGH ORDERS
      ;NO WAY IS IT THIS. GET OUT OF HERE
      ;SLOW ORDERS?
      ;IWELL, HERE IT IS !!
      ;GET LENGTH.

      ;ALWAYS BRANCHES, ERROR NUMBER.
      ;GET BAD SUB ERROR NUMBER.

      ;TOO BIG. "FUNCTION CALL" ERROR.
      ;PERHAPS A "RE-DIMENSION" ERROR
      ;TEST THE DIMFLG

      ;RETURN TO DATA SAVE ROUTINES.

      ;GET NUMBER OF DIMS INPUT

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05 ROMSOFTD ULTIPLÉ DI  
 E1F3:4A 668  
 E1F5:08 0U 669  
 E1F7:09 670 NOTDIM:  
 E1F8:0C 671  
 E1FA:08 672  
 E1FB:09 673  
 E1FE:20 674  
 E201:35 675  
 E203:44 676  
 E205:44 677  
 E207:0F 678  
 E209:05 679  
 E20B:05 680  
 E20D:05 681  
 E20F:05 682  
 E211:AB 683  
 E212:05 684  
 E213:05 685  
 E215:05 686  
 E217:05 687 \*\*\*\*\*  
 E218:20 688  
 E21D:35 689  
 E21F:40 690  
 E221:35 691  
 E223:40 692  
 E227:35 693  
 E229:40 694  
 E231:05 695  
 E233:05 696  
 E235:07 697  
 E237:05 698  
 E239:05 699  
 E241:05 700  
 E243:05 701  
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 E247:05 703  
 E249:05 704  
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 E293:05 726  
 E295:05 727  
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 E299:05 729  
 E2A1:05 730  
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 E2A5:05 732  
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 E2A21:05 740  
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 E2A527:05 993  
 E2A529:05 994  
 E2A531:05 995  
 E2A533:05 996  
 E2A535:05 997  
 E2A537:05 998  
 E2A539:05 999  
 E2A541:05 000



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;RETURN TO CALLER.

VARPNT

LOAD  
RTS

ULTIPLE DI  
95 DIMRTS:  
95

0o ROMSOFTE  
EE2AA:A5 83  
EE2AC:60



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RE	RE	REF:	REF:
0o RJSMSOFT	E2DE#A5	11	135
	E2E0#F3	03	133
	E2E2#20	00	97
	E2E5#34	E6	133
	E2E9#33	E4	89
	E2EB#45	6F	140
	E2E9#45	6D	141
	E2E0#A3	70	142
	E2E5#A5	6E	143
	E2E9#A2	00	144
	E2E0#A1	11	144
	E2E9#99	9F	145
	E2E0#99	9D	146
	E2E5#93	E8	147
	E2E9#93	EB	148
	E2E0#24	0J	149
	E2E5#24	24	150
	E2E9#24	24	151
	E2E0#1A	0J	152
	E2E5#1A	38	153
	E2E9#1A	F0	154
	E2E0#38	EC	
	E2E5#F0	E2F2	

;WE WANT  
;FRETOP-STREND.

FRETOP+1  
STREND+1  
VALTYP  
NOFREF  
FREFAC  
GARBA2  
FRETOP  
STREND  
;SET EXPONENT TO 216  
;TURN IT TO A FLOATING PNT #.  
;GET POSITION.  
;FLOAT IT.



```

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IMPLE-U

00 ROMSOFTE          DEF PNT+1
                      #2 (DEF PNT), Y
                      ;GET POINTER TO VARIABLE.
                      ;SAVE VARIABLE POINTER.

215 PLA
216 SLDY
217 STA
218 STAX
219 INYA
220 BEQ
221 VARPNT+1
222 (DEF PNT), Y
223 ;FUNCTION UNDEFINED?
224 ;SINCE DEF USES ONLY 4.

225 DEF STF
226 ;PUT CURRENT FAC INTO OUR ARG VARIABLE.
227 ;PUSH IT ALL ON STACK
228 ;SINCE WE ARE RECURSING MAYBE.

229 DEF PNT+1
230 (DEF PNT), Y
231 ;PUT CURRENT FAC INTO OUR ARG VARIABLE.
232 ;PUSH IT ALL ON STACK
233 ;SINCE WE ARE RECURSING MAYBE.

234 PLA
235 SLDY
236 JSR
237 LDA
238 PLA
239 SLDY
240 JSR
241 LDA
242 PLA
243 SLDY
244 JSR
245 LDA
246 PLA
247 SLDY
248 JSR
249 LDA
250 PLA
251 SLDY
252 JSR
253 LDA
254 PLA
255 SLDY
256 JSR
257 LDA
258 PLA
259 SLDY
260 JSR
261 LDA
262 PLA
263 SLDY
264 JSR
265 LDA
266 PLA
267 SLDY
268 JSR
269 LDA
270 PLA
271 SLDY
272 JSR
273 LDA
274 PLA
275 SLDY
276 JSR
277 LDA
278 PLA
279 SLDY
280 JSR
281 LDA
282 PLA
283 SLDY
284 JSR
285 LDA
286 PLA
287 SLDY
288 JSR
289 LDA
290 PLA
291 SLDY
292 JSR
293 LDA
294 PLA
295 SLDY
296 JSR
297 LDA
298 PLA
299 SLDY
300 JSR
301 LDA
302 PLA
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305 LDA
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395 SLDY
396 JSR
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695 SLDY
696 JSR
697 LDA
698 PLA
699 SLDY
700 JSR
701 LDA
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703 SLDY
704 JSR
705 LDA
706 PLA
707 SLDY
708 JSR
709 LDA
710 PLA
711 SLDY
712 JSR
713 LDA
714 PLA
715 SLDY
716 JSR
717 LDA
718 PLA
719 SLDY
720 JSR
721 DEF RTS:

```











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TRING FUNCTION		
Do ROMSOFTIE		
E5A3::08	A3	565 PLA
E5A4::85	AC	566 STA STRNG1
E5A5::85	D4	567 #0
E5A6::B1	A3	568 (STRNG1),Y
E5A7::18	A3	569 ADC (FACMD),Y
E5A8::D0	D4	570 SBC SIZEOK
E5A9::40	D5	571 LDX #ERRLS
E5AA::40	D4	572 JMP ERROR
E5AB::B1	A3	573 STRNIN
E5AC::03	A3	574 MOVINS
E5AD::90	D4	575 DSCPNT
E5AE::42	B0	576 FRETMP
E5AF::42	D4	577 PUTNEW
E5B0::45	D4	578 TSSTOP
E5B1::2D	D4	579 #QSTRNG1
E5B2::45	D4	580 (STRNG1),Y
E5B3::45	D4	581 JSR STRNG1
E5B4::45	D4	582 JSR STRNG1
E5B5::45	D4	583 JSR STRNG1
E5B6::45	D4	584 JSR STRNG1
E5B7::45	D4	585 JSR STRNG1
E5B8::45	D4	586 JSR STRNG1
E5B9::45	D4	587 JSR STRNG1
E5BA::45	D4	588 JSR STRNG1
E5BB::45	D4	589 JSR STRNG1
E5BC::45	D4	590 JSR STRNG1
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E5E1::45	D4	627 JSR STRNG1
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E50B::45	D4	669 JSR STRNG1
E50C::45	D4	670 JSR STRNG1
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E557::45	D4	745 JSR STRNG1
E558::45	D4	746 JSR STRNG1
E559::45	D4	747 JSR STRNG1
E55A::45	D4	748 JSR STRNG1
E55B::45	D4	749 JSR STRNG1
E55C::45	D4	750 JSR STRNG1
E55D::45	D4	751 JSR STRNG1
E55E::45	D4	752 JSR STRNG1
E55F::45	D4	753 JSR STRNG1
E560::45	D4	754 JSR STRNG1
E561::45	D4	755 JSR STRNG1
E562::45	D4	756 JSR STRNG1
E563::45	D4	757 JSR STRNG1
E564::45	D4	758 JSR STRNG1
E565::45	D4	759 JSR STRNG1
E566::45	D4	760 JSR STRNG1
E567::45	D4	761 JSR STRNG1
E568::45	D4	762 JSR STRNG1
E569::45	D4	763 JSR STRNG1
E56A::45	D4	764 JSR STRNG1
E56B::45	D4	765 JSR STRNG1
E56C::45	D4	766 JSR STRNG1
E56D::45	D4	767 JSR STRNG1
E56E::45	D4	768 JSR STRNG1
E56F::45	D4	769 JSR STRNG1
E570::45	D4	770 JSR STRNG1
E571::45	D4	771 JSR STRNG1
E572::45	D4	773 JSR STRNG1
E573::45	D4	774 JSR STRNG1
E574::45	D4	775 JSR STRNG1
E575::45	D4	776 JSR STRNG1
E576::45	D4	777 JSR STRNG1
E577::45	D4	778 JSR STRNG1
E578::45	D4	779 JSR STRNG1
E579::45	D4	780 JSR STRNG1
E580::45	D4	781 JSR STRNG1
E581::45	D4	782 JSR STRNG1
E582::45	D4	783 JSR STRNG1
E583::45	D4	784 JSR STRNG1
E584::45	D4	785 JSR STRNG1
E585::45	D4	786 JSR STRNG1
E586::45	D4	787 JSR STRNG1
E587::45	D4	788 JSR STRNG1
E588::45	D4	789 JSR STRNG1
E589::45	D4	790 JSR STRNG1
E58A::45	D4	791 JSR STRNG1
E58B::45	D4	792 JSR STRNG1
E58C::45	D4	793 JSR STRNG1
E58D::45	D4	794 JSR STRNG1
E58E::45	D4	795 JSR STRNG1
E58F::45	D4	796 JSR STRNG1
E58G::45	D4	797 JSR STRNG1
E58H::45	D4	798 JSR STRNG1
E58I::45	D4	799 JSR STRNG1
E58J::45	D4	800 JSR STRNG1
E58K::45	D4	801 JSR STRNG1
E58L::45	D4	802 JSR STRNG1
E58M::45	D4	803 JSR STRNG1
E58N::45	D4	804 JSR STRNG1
E58O::45	D4	805 JSR STRNG1
E58P::45	D4	806 JSR STRNG1
E58Q::45	D4	807 JSR STRNG1
E58R::45	D4	808 JSR STRNG1
E58S::45	D4	809 JSR STRNG1
E58T::45	D4	810 JSR STRNG1
E58U::45	D4	811 JSR STRNG1
E58V::45	D4	812 JSR STRNG1
E58W::45	D4	813 JSR STRNG1
E58X::45	D4	814 JSR STRNG1
E58Y::45	D4	815 JSR STRNG1
E58Z::45	D4	816 JSR STRNG1
E58A::45	D4	817 JSR STRNG1
E58B::45	D4	818 JSR STRNG1
E58C::45	D4	819 JSR STRNG1
E58D::45	D4	820 JSR STRNG1
E58E::45	D4	821 JSR STRNG1
E58F::45	D4	822 JSR STRNG1
E58G::45	D4	823 JSR STRNG1
E58H::45	D4	824 JSR STRNG1
E58I::45	D4	825 JSR STRNG1
E58J::45	D4	826 JSR STRNG1
E58K::45	D4	827 JSR STRNG1
E58L::45	D4	828 JSR STRNG1
E58M::45	D4	829 JSR STRNG1
E58N::45	D4	830 JSR STRNG1
E58O::45	D4	831 JSR STRNG1
E58P::45	D4	832 JSR STRNG1
E58Q::45	D4	833 JSR STRNG1
E58R::45	D4	834 JSR STRNG1
E58S::45	D4	835 JSR STRNG1
E58T::45	D4	836 JSR STRNG1
E58U::45	D4	837 JSR STRNG1
E58V::45	D4	838 JSR STRNG1
E58W::45	D4	839 JSR STRNG1
E58X::45	D4	840 JSR STRNG1
E58Y::45	D4	841 JSR STRNG1
E58Z::45	D4	842 JSR STRNG1
E58A::45	D4	843 JSR STRNG1
E58B::45	D4	844 JSR STRNG1
E58C::45	D4	845 JSR STRNG1
E58D::45	D4	846 JSR STRNG1
E58E::45	D4	847 JSR STRNG1
E58F::45	D4	848 JSR STRNG1
E58G::45	D4	849 JSR STRNG1
E58H::45	D4	850 JSR STRNG1
E58I::45	D4	851 JSR STRNG1
E58J::45	D4	852 JSR STRNG1
E58K::45	D4	853 JSR STRNG1
E58L::45	D4	854 JSR STRNG1
E58M::45	D4	855 JSR STRNG1
E58N::45	D4	856 JSR STRNG1
E58O::45	D4	857 JSR STRNG1
E58P::45	D4	858 JSR STRNG1
E58Q::45	D4	859 JSR STRNG1
E58R::45	D4	860 JSR STRNG1
E58S::45	D4	861 JSR STRNG1
E58T::45	D4	862 JSR STRNG1
E58U::45	D4	863 JSR STRNG1
E58V::45	D4	864 JSR STRNG1
E58W::45	D4	865 JSR STRNG1
E58X::45	D4	866 JSR STRNG1
E58Y::45	D4	867 JSR STRNG1
E58Z::45	D4	868 JSR STRNG1
E58A::45	D4	869 JSR STRNG1
E58B::45	D4	870 JSR STRNG1
E58C::45	D4	871 JSR STRNG1
E58D::45	D4	872 JSR STRNG1
E58E::45	D4	873 JSR STRNG1
E58F::45	D4	874 JSR STRNG1
E58G::45	D4	875 JSR STRNG1
E58H::45	D4	876 JSR STRNG1
E58I::45	D4	877 JSR STRNG1
E58J::45	D4	878 JSR STRNG1
E58K::45	D4	879 JSR STRNG1
E58L::45	D4	880 JSR STRNG1
E58M::45	D4	881 JSR STRNG1
E58N::45	D4	882 JSR STRNG1
E58O::45	D4	883 JSR STRNG1
E58P::45	D4	884 JSR STRNG1
E58Q::45	D4	885 JSR STRNG1
E58R::45	D4	886 JSR STRNG1
E58S::45	D4	887 JSR STRNG1
E58T::45	D4	888



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06 RJSOFTN      TRING FUNCTION
E95A:          681 ; IT TAKES THE LEAST # CHARACTERS OF THE STRING,
E95B:          682 ; IF # - GT, IT RETURNS THE WHOLE STRING
E95C:          683 LEFT$:    JSR PREAM
E95D:          684 CMP (DSCPNT),Y
E95E:          685 STA Y
E95F:          686 STA (DSCPNT),Y
E960:          687 RLEFT1
E961:          688 RLEFT2
E962:          689 RLEFT3
E963:          690 RLEFT4
E964:          691 RLEFT5
E965:          692 RLEFT6
E966:          693 RLEFT7
E967:          694 RLEFT8
E968:          695 RLEFT9
E969:          696 RLEFTA
E96A:          697 RLEFTB
E96B:          698 RLEFTC
E96C:          699 RLEFTD
E96D:          700 RLEFTE
E96E:          701 RLEFTF
E96F:          702 RLEFTG
E970:          703 RLEFTH
E971:          704 RLEFTI
E972:          705 RLEFTJ
E973:          706 RLEFTK
E974:          707 RLEFTL
E975:          708 RLEFTM
E976:          709 RLEFTN
E977:          710 RLEFTO
E978:          711 RLEFTP
E979:          712 RLEFTQ
E97A:          713 RLEFTR
E97B:          714 RLEFTS
E97C:          715 RLEFTT
E97D:          716 RLEFTU
E97E:          717 RLEFTV
E97F:          718 RLEFTW
E97G:          719 RLEFTX
E97H:          720 RLEFTY
E97I:          721 RLEFTZ
E97J:          722 RLEFTA
E97K:          723 RLEFTB
E97L:          724 RLEFTC
E97M:          725 RLEFTD
E97N:          726 RLEFTE
E97O:          727 RLEFTF
E97P:          728 RLEFTG
E97Q:          729 RLEFTH
E97R:          730 RLEFTI
E97S:          731 RLEFTJ
E97T:          732 RLEFTK
E97U:          733 RLEFTL
E97V:          734 RLEFTM
E97W:          735 RLEFTN
E97X:          736 RLEFTO
E97Y:          737 RLEFTP
E97Z:          738 RLEFTQ
E97A:          739 RLEFTR
E97B:          740 RLEFTS
E97C:          741 RLEFTT
E97D:          742 RLEFTU
E97E:          743 RLEFTV
E97F:          744 RLEFTW
E97G:          745 RLEFTX
E97H:          746 RLEFTY
E97I:          747 RLEFTZ
E97J:          748 RLEFTA
E97K:          749 RLEFTB
E97L:          750 RLEFTC
E97M:          751 RLEFTD
E97N:          752 RLEFTE
E97O:          753 RLEFTF
E97P:          754 RLEFTG
E97Q:          755 RLEFTH
E97R:          756 RLEFTI
E97S:          757 RLEFTJ
E97T:          758 RLEFTK
E97U:          759 RLEFTL
E97V:          760 RLEFTM
E97W:          761 RLEFTN
E97X:          762 RLEFTO
E97Y:          763 RLEFTP
E97Z:          764 RLEFTQ
E97A:          765 RLEFTR
E97B:          766 RLEFTS
E97C:          767 RLEFTT
E97D:          768 RLEFTU
E97E:          769 RLEFTV
E97F:          770 RLEFTW
E97G:          771 RLEFTX
E97H:          772 RLEFTY
E97I:          773 RLEFTZ
E97J:          774 RLEFTA
E97K:          775 RLEFTB
E97L:          776 RLEFTC
E97M:          777 RLEFTD
E97N:          778 RLEFTE
E97O:          779 RLEFTF
E97P:          780 RLEFTG
E97Q:          781 RLEFTH
E97R:          782 RLEFTI
E97S:          783 RLEFTJ
E97T:          784 RLEFTK
E97U:          785 RLEFTL
E97V:          786 RLEFTM
E97W:          787 RLEFTN
E97X:          788 RLEFTO
E97Y:          789 RLEFTP
E97Z:          790 RLEFTQ
E97A:          791 RLEFTR
E97B:          792 RLEFTS
E97C:          793 RLEFTT
E97D:          794 RLEFTU
E97E:          795 RLEFTV
E97F:          796 RLEFTW
E97G:          797 RLEFTX
E97H:          798 RLEFTY
E97I:          799 RLEFTZ
E97J:          800 RLEFTA
E97K:          801 RLEFTB
E97L:          802 RLEFTC
E97M:          803 RLEFTD
E97N:          804 RLEFTE
E97O:          805 RLEFTF
E97P:          806 RLEFTG
E97Q:          807 RLEFTH
E97R:          808 RLEFTI
E97S:          809 RLEFTJ
E97T:          810 RLEFTK
E97U:          811 RLEFTL
E97V:          812 RLEFTM
E97W:          813 RLEFTN
E97X:          814 RLEFTO
E97Y:          815 RLEFTP
E97Z:          816 RLEFTQ
E97A:          817 RLEFTR
E97B:          818 RLEFTS
E97C:          819 RLEFTT
E97D:          820 RLEFTU
E97E:          821 RLEFTV
E97F:          822 RLEFTW
E97G:          823 RLEFTX
E97H:          824 RLEFTY
E97I:          825 RLEFTZ
E97J:          826 RLEFTA
E97K:          827 RLEFTB
E97L:          828 RLEFTC
E97M:          829 RLEFTD
E97N:          830 RLEFTE
E97O:          831 RLEFTF
E97P:          832 RLEFTG
E97Q:          833 RLEFTH
E97R:          834 RLEFTI
E97S:          835 RLEFTJ
E97T:          836 RLEFTK
E97U:          837 RLEFTL
E97V:          838 RLEFTM
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E97Y:          841 RLEFTP
E97Z:          842 RLEFTQ
E97A:          843 RLEFTR
E97B:          844 RLEFTS
E97C:          845 RLEFTT
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E97E:          847 RLEFTV
E97F:          848 RLEFTW
E97G:          849 RLEFTX
E97H:          850 RLEFTY
E97I:          851 RLEFTZ
E97J:          852 RLEFTA
E97K:          853 RLEFTB
E97L:          854 RLEFTC
E97M:          855 RLEFTD
E97N:          856 RLEFTE
E97O:          857 RLEFTF
E97P:          858 RLEFTG
E97Q:          859 RLEFTH
E97R:          860 RLEFTI
E97S:          861 RLEFTJ
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E97U:          863 RLEFTL
E97V:          864 RLEFTM
E97W:          865 RLEFTN
E97X:          866 RLEFTO
E97Y:          867 RLEFTP
E97Z:          868 RLEFTQ
E97A:          869 RLEFTR
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E97C:          871 RLEFTT
E97D:          872 RLEFTU
E97E:          873 RLEFTV
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E97I:          877 RLEFTZ
E97J:          878 RLEFTA
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E97S:          887 RLEFTJ
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E97Z:          894 RLEFTQ
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E97C:          897 RLEFTT
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E97E:          899 RLEFTV
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E97G:          901 RLEFTX
E97H:          902 RLEFTY
E97I:          903 RLEFTZ
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E97V:          942 RLEFTM
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E97X:          944 RLEFTO
E97Y:          945 RLEFTP
E97Z:          946 RLEFTQ
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E97C:          949 RLEFTT
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E97E:          951 RLEFTV
E97F:          952 RLEFTW
E97G:          953 RLEFTX
E97H:          954 RLEFTY
E97I:          955 RLEFTZ
E97J:          956 RLEFTA
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E97P:          962 RLEFTG
E97Q:          963 RLEFTH
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E97S:          965 RLEFTJ
E97T:          966 RLEFTK
E97U:          967 RLEFTL
E97V:          968 RLEFTM
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E97Y:          997 RLEFTP
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E97C:          1001 RLEFTT
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E97I:          1007 RLEFTZ
E97J:          1008 RLEFTA
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E97C:          1053 RLEFTT
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E97E:          1055 RLEFTV
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E97I:          1059 RLEFTZ
E97J:          1060 RLEFTA
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E97L:          1062 RLEFTC
E97M:          1063 RLEFTD
E97N:          1064 RLEFTE
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E97H:          1084 RLEFTY
E97I:          1085 RLEFTZ
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E97P:          1092 RLEFTG
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E97S:          1095 RLEFTJ
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E97X:          1100 RLEFTO
E97Y:          1101 RLEFTP
E97Z:          1102 RLEFTQ
E97A:          1103 RLEFTR
E97B:          1104 RLEFTS
E97C:          1105 RLEFTT
E97D:          1106 RLEFTU
E97E:          1107 RLEFTV
E97F:          1108 RLEFTW
E97G:          1109 RLEFTX
E97H:          1110 RLEFTY
E97I:          1111 RLEFTZ
E97J:          1112 RLEFTA
E97K:          1113 RLEFTB
E97L:          1114 RLEFTC
E97M:          1115 RLEFTD
E97N:          1116 RLEFTE
E97O:          1117 RLEFTF
E97P:          1118 RLEFTG
E97Q:          1119 RLEFTH
E97R:          1120 RLEFTI
E97S:          1121 RLEFTJ
E97T:          1122 RLEFTK
E97U:          1123 RLEFTL
E97V:          1124 RLEFTM
E97W:          1125 RLEFTN
E97X:          1126 RLEFTO
E97Y:          1127 RLEFTP
E97Z:          1128 RLEFTQ
E97A:          1129 RLEFTR
E97B:          1130 RLEFTS
E97C:          1131 RLEFTT
E97D:          1132 RLEFTU
E97E:          1133 RLEFTV
E97F:          1134 RLEFTW
E97G:          1135 RLEFTX
E97H:          1136 RLEFTY
E97I:          1137 RLEFTZ
E97J:          1138 RLEFTA
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E97L:          1140 RLEFTC
E97M:          1141 RLEFTD
E97N:          1142 RLEFTE
E97O:          1143 RLEFTF
E97P:          1144 RLEFTG
E97Q:          1145 RLEFTH
E97R:          1146 RLEFTI
E97S:          1147 RLEFTJ
E97T:          1148 RLEFTK
E97U:          1149 RLEFTL
E97V:          1150 RLEFTM
E97W:          1151 RLEFTN
E97X:          1152 RLEFTO
E97Y:          1153 RLEFTP
E97Z:          1154 RLEFTQ
E97A:          1155 RLEFTR
E97B:          1156 RLEFTS
E97C:          1157 RLEFTT
E97D:          1158 RLEFTU
E97E:          1159 RLEFTV
E97F:          1160 RLEFTW
E97G:          1161 RLEFTX
E97H:          1162 RLEFTY
E97I:          1163 RLEFTZ
E97J:          1164 RLEFTA
E97K:          1165 RLEFTB
E97L:          1166 RLEFTC
E97M:          1167 RLEFTD
E97N:          1168 RLEFTE
E97O:          1169 RLEFTF
E97P:          1170 RLEFTG
E97Q:          1171 RLEFTH
E97R:          1172 RLEFTI
E97S:          1173 RLEFTJ
E97T:          1174 RLEFTK
E97U:          1175 RLEFTL
E97V:          1176 RLEFTM
E97W:          1177 RLEFTN
E97X:          1178 RLEFTO
E97Y:          1179 RLEFTP
E97Z:          1180 RLEFTQ
E97A:          1181 RLEFTR
E97B:          1182 RLEFTS
E97C:          1183 RLEFTT
E97D:          1184 RLEFTU
E97E:          1185 RLEFTV
E97F:          1186 RLEFTW
E97G:          1187 RLEFTX
E97H:          1188 RLEFTY
E97I:          1189 RLEFTZ
E97J:          1190 RLEFTA
E97K:          1191 RLEFTB
E97L:          1192 RLEFTC
E97M:          1193 RLEFTD
E97N:          1194 RLEFTE
E97O:          1195 RLEFTF
E97P:          1196 RLEFTG
E97Q:          1197 RLEFTH
E97R:          1198 RLEFTI
E97S:          1199 RLEFTJ
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E97Z:          1206 RLEFTQ
E97A:          1207 RLEFTR
E97B:          1208 RLEFTS
E97C:          1209 RLEFTT
E97D:          1210 RLEFTU
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E97Z:          1232 RLEFTQ
E97A:          1233 RLEFTR
E97B:          1234 RLEFTS
E97C:          1235 RLEFTT
E97D:          1236 RLEFTU
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E97R:          1250 RLEFTI
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E97U:          1253 RLEFTL
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E97J:          1268 RLEFTA
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E97Z:          1310 RLEFTQ
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E97C:          1313 RLEFTT
E97D:          1314 RLEFTU
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E97B:          1338 RLEFTS
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E97E:          1445 RLEFTV
E97F:          1446 RLEFTW
E97G:          1447 RLEFTX
E97H:          1448 RLEFTY
E97I:          1449 RLEFTZ
E97J:          1450 RLEFTA
E97K:          1451 RLEFTB
E97L
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FLOATING POINT MATH PACKAGE CON

07 ROMSOFT ADDITION AND SUBTRACT 29-MAR-84 08:16 PAGE 84  
 170 FADDH: FFHALF #<FFHALF  
 171 FADDW: FADDW #<FADDW  
 172 FSUBH: CONUPK FACSGN #@377  
 173 FSUBW: FACSGN #COMPLEMENT IT.  
 174 FADD: ARISGN #COMPLEMENT ARISGN.  
 175 FSUB: ARISGN #SET CODES ON FACEXP.  
 176 FADDIT: ARISGN #@=ARGEXP  
 177 FSUBIT: SHIFTR #DO A LONG SHIFT  
 ;CONTINUE WITH ADDITION.  
 178 FADD: FADD4 CONUPK \*+5  
 179 FSUB: MOVFA FADDPY ACCA INTO ACC.  
 180 FADD: OLD OV #IF ARG=0, RESULT IS IN ACC.  
 181 FSUB: ARGEXP #IF ARG<0, FAC IS RESULT.  
 182 FADD: BNECR FADD4  
 183 FSUB: BNECR FADD4  
 184 FADD: BNECR FADD4  
 185 FSUB: BNECR FADD4  
 186 FADD: BNECR FADD4  
 187 FSUB: BNECR FADD4  
 188 FADD: BNECR FADD4  
 189 FSUB: BNECR FADD4  
 190 FADD: BNECR FADD4  
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07 ROMSOFTF	LOADING POINT	ADDITION AND SUBTRACT	29-MAR-84 08:16 PAGE 87
E8F2 E30 E3	344	SHFTR2	;C CAN BE EITHER 1,0 AND IT WORKS.
E8F4 E50 E5	345	SHFTR2	
E8F5 E52 E53	346	#@10	
E8F6 A8	347	TAY	
E8F8 A5	348	LDS	
E8FB A5D 14	349	A5L	
E8FD 01	350	BCC	
E8FF 90 02	351	SHFTR3:	
E901 01	352	TNC	
E903 73 01	353	ROR	
E905 76 01	354	SHFTR4:	
E907 76 02	355	ROL SHF:	
E908 76 04	356	ROR	
E909 64 06	357	ROR	
E90A C3 08	358	ROR	
E90B C3 09	359	ROR	
E911 01 0A	360	SHFTR7:	
E912 01 0B	361	SHFTR8:	
E913 01 0C	362	SHFTR9:	
E914 01 0D	363	SHFTR10:	



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07 ROMSUFFT ATURAL LOG FU
E952:35 9U
E954:A2 2U
E956:A0 E9
E958:20 BE E7
E959:A9 32
E95D:40 E9 EA
E95F:20 A9 13
E962:40 E9 17
E964:20 A9 18
E966:40 E9 19
E968:20 A9 20
E96A:40 E9 21
E96C:20 A9 22
E96E:40 E9 23
E970:20 A9 24
E972:40 E9 25
E974:20 A9 26
E976:40 E9 27
E978:20 A9 28
E97B:40 E9 29
E97D:20 A9 30
E97F:40 E9 31

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;RESULT IS FAC IN RANGE 0..5..1.

STA #SQR0:5
LDA #<SQR0:5
LDY (F-SQR(.5)):5 ;GET POINTER TO SQR(.5).
JSR SFADD ;ADD TO FAC.

LDA #SSQR2:0
LDY #SSQR2:0 ;GET SQR(2.0).

LDA #FDIV ;DIVIDE
LDY #<FDIV ;FONE
JSR FSUB ;SUBTRACT
LDA #<LOGCN2 ;LOGCN2
LDY #<LOGCN2 ;LOGCN2
JSR POLYX ;POLYX
LDA #<NEGHLF ;NEGHLF
LDY #<NEGHLF ;NEGHLF
JSR FADD ;ADD

FINLOG
LDA #LDG2
LDY #<LDG2 ;MULTIPLY BACK.
JSR MULLN2: ;ADD IT IN.
;MULTIPLY RESULT BY LOG(2.0). ;MULTIPLY TOGETHER.

;EVALUATE APPROXIMATION POLYNOMIAL
;ADD IN LAST CONSTANT.
;GET EXPONENT BACK.
;ADD IT IN.

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J7 ROMSOFTF LOADING MULTIPLICATION AND DIVISION 29-MAR-84 08:16 PAGE 92

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564      DFB 000          MOVE FAC TO ARG.
565      JSR #TEN.C        ;POINT TO CONSTANT OF 10.0
566      LDY #0            ;SIGNS ARE BOTH POSITIVE.
567      LDX STSR          ;PUT IT INTO FAC
568      MOVFM FDIYNT        ;SKIP OVER NEXT TWO BYTES.
569      JSR CONUPK        ;UNPACK CONSTANT.
570      JSR DVOERR        ;CAN'T DIVIDE BY ZERO !
571      FDIVF:           ;NOT ENOUGH ROOM TO STORE RESULT
572      JSR #0            ;TAKE FAC0V INTO ACCT IN FAC.
573      LDA SEC            ;NEGATE FACEXP
574      JSR FACEXP         ;FACEXP
575      JSR MULDIV        ;MULDIV
576      JSR FACEXP         ;FACEXP
577      JSR G00YER-3+1     ;G00YER
578      LDA SEC            ;SEC
579      JSR STSR            ;STSR
580      JSR TBEQX          ;TBEQX
581      LDY #0            ;LDY
582      JSR LDQYNE         ;LDQYNE
583      LDY #1            ;LDY
584      JSR LDQYNE         ;LDQYNE
585      JSR DIVIDE:        ;THIS IS THE BEST CODE IN THE WHOLE FILE
586      JSR *#1             ;SEE WHAT RELATION HOLDS.
587      JSR C=0=0.          ;C=0,1. N(C=0)=0.

588      JSR FIXUP EXPONENTS.    ;FIX UP EXPONENTS.
589      JSR SCALES IT RIGHT.   ;SCALE IT RIGHT.
590      JSR OVERFLOW PROCEDURE. ;OVERFLOW PROCEDURE.
591      JSR SETUP PROCEDURE.   ;SETUP PROCEDURE.

592      JSR LDY #0            ;LDY
593      JSR LDQYNE         ;LDQYNE
594      JSR LDQYNE         ;LDQYNE
595      JSR LDQYNE         ;LDQYNE
596      JSR LDQYNE         ;LDQYNE
597      JSR LDQYNE         ;LDQYNE
598      JSR LDQYNE         ;LDQYNE
599      JSR LDQYNE         ;LDQYNE
600      JSR LDQYNE         ;LDQYNE
601      JSR LDQYNE         ;LDQYNE
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;NOTE THIS REQ 1 MO RAM THEN NECESS.

;RETURN CONDITION CODES.

;FACILE ARG. SHIFT ARG ONE PLACE LEFT.

;SAVE A RESULT OF ONE FOR THIS POSITION

;IF MSB ON, GO DECIDE WHETHER TO SUB.

;NOTICE C MUST BE ON HERE.

"DTCA2DOC-007-093.PICT" 70 KB 2001-03-26 dpi: 250h x 250v pix: 1957h x 2386v





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07 ROMSOFTF IGN,
FB82:45 90 739 ;PUT SIGN OF FAC IN ACCA.
EB84:45 A2 740 SIGN: LDA FFACEXP
EB83:24 EBB8F 741 BEQ SIGNRT
EB83:49 FF 742 FC SIGN: LDA FACSGN
EB83:00 02 EBB8F 743 FCOMPS: ROL A#$100-1
EB83:49 01 EBB8F 744 SIGNRT: SRL DCS #1
EB83:00 00 EBB8F 745 SIGNRT: LDA BCD
EB83:20 82 EB 746 SIGN RTNS: STA BCD
EB83:00 00 EBB8F 747 SIGN FUNCTION: STA BCD
EB83:49 05 EBB95:49 05 748 SIGN: LDA BCD
EB83:00 00 EBB90:20 82 749 ;FLOAT THE SIGNED INTEGER IN ACCA
EB83:49 01 EBB93:45 9E 750 ;PUT ACCA IN HIGH ORDER.
EB83:00 00 EBB97:42 83 751 FLOAT: STA BCD
EB83:49 05 EBB9B:45 9E 752 STA BCD
EB83:00 00 EBB9D:49 FF 753 STA BCD
EB83:49 04 EBB9F:24 00 754 STA BCD
EB83:00 00 EBBAC:49 00 755 STA BCD
EB83:49 01 EBBAD:41 40 756 STA BCD
EB83:00 00 EBBAA:35 40 757 STA BCD
EB83:49 05 EBBAB:35 40 758 STA BCD
EB83:00 00 EBBAC:4C 29 E8 759 STA BCD
EB83:49 04 EBBAC:4C 29 E8 760 STA BCD
EB83:00 00 EBBAC:4C 29 E8 761 STA BCD
EB83:49 05 EBBAC:4C 29 E8 762 STA BCD
EB83:00 00 EBBAC:4C 29 E8 763 STA BCD
EB83:49 04 EBBAC:4C 29 E8 764 STA BCD
EB83:00 00 EBBAC:4C 29 E8 765 STA BCD
EB83:49 05 EBBAC:4C 29 E8 766 STA BCD
EB83:00 00 EBBAC:4C 29 E8 767 STA BCD
EB83:49 04 EBBAC:4C 29 E8 768 STA BCD
EB83:00 00 EBBAC:4C 29 E8

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## 07 R J M S O F T F      O M P A R E   T W O   N U M B E R S .

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771 ;A=1 IF ARG =LT- FAC-
772 ;A=0 IF ARG =FAC-
773 ;A=-1 IF ARG =GT- FAC-
774 FCOMP: STY INDEX2+1
775 FCOMPN: LDY #0
776 LDY (INDEX2),Y
777 LDY (INDEX2)+1,Y
778 LDY (INDEX2),Y
779 LDY (INDEX2)+1,Y
780 LDY (INDEX2),Y
781 LDY (INDEX2)+1,Y
782 LDY (INDEX2),Y
783 LDY (INDEX2)+1,Y
784 LDY (INDEX2),Y
785 LDY (INDEX2)+1,Y
786 LDY (INDEX2),Y
787 LDY (INDEX2)+1,Y
788 LDY (INDEX2),Y
789 LDY (INDEX2)+1,Y
790 LDY (INDEX2),Y
791 LDY (INDEX2)+1,Y
792 LDY (INDEX2),Y
793 LDY (INDEX2)+1,Y
794 LDY (INDEX2),Y
795 LDY (INDEX2)+1,Y
796 LDY (INDEX2),Y
797 LDY (INDEX2)+1,Y
798 LDY (INDEX2),Y
799 LDY (INDEX2)+1,Y
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*;HAS ARG EXP<sup>Y</sup>  
;BUMP PNTR UP  
;SAVE A IN X AND RESET CODES.*  
*;SIGNS THE SAME RESULT IS  
;SIGNS DIFFER SO RESULT IS*  
*;GET ZERO IF EQUAL.*  
*;A PART OF SIGN SETS ACCA UP.*