

16/116+4

COMPUTING-MONTHLY

ISSUE

1010

December 1991

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VOLUME

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The
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No
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BUTS

~~Handwritten scribble~~

All the best

W N 1)

DEAR ROY,

AS PROMISED, HERE ARE SOME ROUTINES WHICH ALLOW YOU TO ADD COMMANDS TO BASIC. HOPE YOU LIKE THEM. THE FIRST IS THE OLD COMMAND.

1078 LDA# AF	LDA(S22),Y	JMP# 0473	STAS 0D
LDY# 11	BNES 1089	JMP# 94A1	JSR# 0473
STYS 23	SEC	LDY# 10	CMPT# FE
STAS 22	JSR# 0479	LDAT# 7B	BEQ# 114A
LDY# 00	JMP# 896A	STYS 030D	JSR# 0479
STYS 0B	CRAB 0B	STAS 030C	JMP# 941E
DEY	INY	LDY# 10	JSR# 0473
INY	JMP# 89D4	LDAT# BD	CMPT# 9C
JSR# 04A5	TAX	STYS 030F	BCC 11AC
SEC	LDY# 11	STAS 030E	CMPT# A6
SBC(S22),Y	STYS 23	LDY# 10	BES# 11AC
BEQ# 1088	LDY# AF	LDAT# C9	SEC
CMPT# 80	STY 22	STY# 0311	SBC# 80
BEQ# 10B7	JMP# 8B9E	STAS 0310	ASL
LDA(S22),Y	CMPT# 80	LDAT# 39	TAY
BMI# 109C	BCC# 10E5	LDY# 11	LDA# 125C, Y
INY	CMPT# 9C	STYS 030B	STAS 56
BNES 1095	BCC# 10D5	STAS 030A	LDA \$125D
INY	CMPT# A6		STAS 55
INCS 0B	BES# 10E5		JSR# 0054
CLC	SEC	LDA# 01	JMP# 9317
TVA	SBC# 580	LDY# 21	11AF - 4F, 4C, CL
ADCS 22	ASL	STYS 2C	00, 11, CO.
STAS 22	TAY	STAS 2B	
BCC# 10A9	LDA# 11B3.Y	LDAT# 00	11C# RTS
INCS 23	PHA	STAS 2100	LDA# FF
CLC	LDA# 11B4.Y	RTS	LDY# 01
LDY# 00	PHA	1139 LDA# 00	STAS (S2B),

LISTINGS

LISTINGS

JSRS 8818

LDAS 22

CLC

ADCH 802

STAS 2D

LDAS 23

ADCH 300

STAS 2E

JMPS 8A9A

JSRS 9314

JSRS 9DEF4

LDY 815

LDAS 14

STYS 2C

STAS 28

~~LDAS 500~~

LDY 500

STA(S2B),Y

INC 2B

BNE 11F4

INC 2C

JMPS 8A7B

JSRS 9314

JSRS 9DEF4

LDY 815

LDAS 14

Step 38

Step 37

RTS

Use SYS 4328

GAME REVIEW

Reviewer - Mart Leman - West Sussex

Game Reviewed - Speed King

This must be about the only motorbike game there is on the C16/plus/4. It's a pleasure to report then that it is also a brilliant game. The aim of the game is to race against 14 other riders (all computer controlled) and to try and finish in as best position as you can. But that's not all, you have got the option to race on 4 different famous circuits. The game itself is great & the bike you ride has got 6 gears, which will take some mastering but it's fine when you have got the hang of it. Obviously hitting other riders will cause you to crash as will hitting the barriers. Quite spectacular crashes well, when you burst into a ball of flame and the rider you collided with carries on as though nothing has happened. The graphics are fine as is the sound, a nice tune bop's away on your circuit selection menu. Playability is great, especially once you've mastered the gears, and durability is ages, you'll be hooked! I remember when Commodore User reviewed this and they wanted to keep an it, but believe me there is nothing wrong with this game at all. I also remember it hit no.1 in the C16 charts and it's there for a long time! So it can't be bad. No surprise then that it's from 'MASTERTRONIC' one of (if not the best) the best C16/plus/4 producers. A great

game from a great company - need I say more

Mart's out of 100%

GRAPHICS 82%

SOUND 70%

PLAYABILITY 94%

VFH 98%

OVERALL 89%

Company - MASTERTECHNIC

PRICE - 1.99

PULL MEMBERS LIST For
Your use

Record number : 1
1) SURNAME : CRACK
2) FORENAME/S : PETER FRANK
3) ADDRESS : 88 BURLEIGH ROAD, ENFIELD, MIDDLESEX
4) POSTCODE : EN1 1NX
5) TEL NUMBER/S : H081-~~3292~~-4081-3675888
6) COMPUTER OWNED : +4 3292-3062
7) HARDWARE : 1551 D/D

Record number : 2
1) SURNAME : KENZITT
2) FORENAME/S : WAYNE
3) ADDRESS : 58 WESTWOOD CRES, WINTON, ECCLES, MANCHESTER
4) POSTCODE : M30 8DZ
5) TEL NUMBER/S : 061-789-2893
6) COMPUTER OWNED : +4
7) HARDWARE : 1551 D/D

Record number : 3
1) SURNAME : WHEALS
2) FORENAME/S : KEVIN BARRY
3) ADDRESS : 12 HILLDOWN ROAD, GADEBRIDGE, HEDEL HEMPSTEAD, HERTS
4) POSTCODE : HP1 3JE
5) TEL NUMBER/S :
6) COMPUTER OWNED : 2XC16,+4,AMIGA,C64,VIC20
7) HARDWARE : OCEANIC 118N D/D, PRINTER

Record number : 4
1) SURNAME : BRIGHTON
2) FORENAME/S : WILLIAM DAVID
3) ADDRESS : 56B OCCUPATION LANE, SHEFFIELD, S. YORKSHIRE
4) POSTCODE : S12 4PS
5) TEL NUMBER/S : 0742-641046
6) COMPUTER OWNED : +4
7) HARDWARE : 1541 & 1551 D/D

Record number : 5
1) SURNAME : BERZINS
2) FORENAME/S : VILNIS
3) ADDRESS : 193 GORSEMOOR ROAD, HEATH HAYES, CANNOCK
4) POSTCODE : WS12 5HR
5) TEL NUMBER/S : 0543-77121
6) COMPUTER OWNED : +4
7) HARDWARE : 1551 D/D, STAR NL10 PRNTR

Record number : 6
) SURNAME: : POLLARD
) FORENAME/S: : SIMON JOHN
) ADDRESS: : 7 SEAVY ROAD, GOOLE, NORTH HUMBERSIDE
) POSTCODE: : DN14 6TA
) TEL NUMBER/S: : 0405-768898
) COMPUTER OWNED: : +4
) HARDWARE: :

Record number : 7
) SURNAME: : LOWE
) FORENAME/S: : DAVID
) ADDRESS: : 30 ST. ANNES DRIVE, WORKSOP, NOTTS
) POSTCODE: : S80 3QD
) TEL NUMBER/S: : 0909-474960
) COMPUTER OWNED: : +4
) HARDWARE: : 1551 D/D, MPS 803 PRINTER

Record number : 8
) SURNAME: : DAVIES
) FORENAME/S: : ROBERT TURNER
) ADDRESS: : 70 LEVER STREET, LITTLE LEVER, BOLTON
) POSTCODE: : BL3 1BH
) TEL NUMBER/S: : 0204-75283
) COMPUTER OWNED: : +4
) HARDWARE: :

Record number : 9
) SURNAME: : NICHOL
) FORENAME/S: : JAMES
) ADDRESS: : 13 BLERIOT ROAD, HESTON, HOUNSLOW, MIDDLESEX
) POSTCODE: : TW5 2LG
) TEL NUMBER/S: : 081-897-0809
) COMPUTER OWNED: : +4
) HARDWARE: : 1551 D/D, MPS 801 PRINTER

Record number : 10
) SURNAME: : TANG
) FORENAME/S: : ANDY
) ADDRESS: : 155 PACKINGTON SQUARE, ISLINGTON, LONDON
) POSTCODE: : N1 7UB
) TEL NUMBER/S: : 071-354-0494
) COMPUTER OWNED: : C15, +4
) HARDWARE: :

Record number : 11
1) SURNAME: : de BRUIN
2) FORENAME/S: : RONALD
3) ADDRESS: : HYACINTHSTRAAT 8, NL-3261 XD OUD-BEYERLAND, THE NETHERL
ANDS
4) POSTCODE: :
5) TEL NUMBER/S: : 01031-186014574/HOLL01860
6) COMPUTER OWNED: : +4
7) HARDWARE: : 1551 D/D, SEIK SP180 PRNT

Record number : 12
1) SURNAME: : MARSHALL
2) FORENAME/S: : ROBERT WILLIAM (ROB)
3) ADDRESS: : 89 OLD ROAD, EAST PECKHAM, TONBRIDGE, KENT
4) POSTCODE: : TN12 5EN
5) TEL NUMBER/S: : 0622-871066
6) COMPUTER OWNED: : +4
7) HARDWARE: : STAR LC10 PRNTR, 1581 D/D

Record number : 13
1) SURNAME: : APPLEBY
2) FORENAME/S: : PETER
3) ADDRESS: : 18 ABBEY ROAD, NEWSTEAD, NOTTS
4) POSTCODE: : NG15 0BL
5) TEL NUMBER/S: : 0623-720255
6) COMPUTER OWNED: : C16, +4
7) HARDWARE: :

Record number : 14
1) SURNAME: : BRETT
2) FORENAME/S: : ANDY
3) ADDRESS: : 72 ST. NEOTS ROAD, EATON FORD, ST. NEOTS, CAMBS
4) POSTCODE: : PE19 3BD
5) TEL NUMBER/S: : 0480-213504
6) COMPUTER OWNED: : +4
7) HARDWARE: : EXCEL D/D, SEIK GP100 PRN

Record number : 15
1) SURNAME: : JONES
2) FORENAME/S: : ERIC
3) ADDRESS: : THE FOLD, BUCKNALL, SHROPSHIRE
4) POSTCODE: : SY7 0AA
5) TEL NUMBER/S: : 05474-348
6) COMPUTER OWNED: : C16
7) HARDWARE: : HR-50 PRNTR, 16K RAM-PACK

Record number : 16
1) SURNAME : HOOYEN
2) FORENAME/S : HARRY
3) ADDRESS : 70 WOOD ROAD, TETTENHALL WOOD, WOLVERHAMPTON
4) POSTCODE : WV6 8NF
5) TEL NUMBER/S : 0902-744328
6) COMPUTER OWNED : +4
7) HARDWARE :

Record number : 17
1) SURNAME : SEXTON
2) FORENAME/S : TONY
3) ADDRESS : 17 GROVE ROAD NORTH, PORTSMOUTH, HANTS
4) POSTCODE : PO5 1JJ
5) TEL NUMBER/S : 0705-823470
6) COMPUTER OWNED : +4, C64 & IBM PC
7) HARDWARE : 1541 D/D

Record number : 18
1) SURNAME : CLARKE
2) FORENAME/S : NEVILLE
3) ADDRESS : 64 WESTWOOD CRESCENT, WINTON, ECCLES, MANCHESTER
4) POSTCODE : M30 8DZ
5) TEL NUMBER/S : 061-707-3738
6) COMPUTER OWNED : +4
7) HARDWARE :

Record number : 19
1) SURNAME : RITCHIE
2) FORENAME/S : NICHOLAS J (NICK)
3) ADDRESS : 176 ALBERT AVENUE, PRESTWICH, MANCHESTER
4) POSTCODE : M25 8HF
5) TEL NUMBER/S : 061-738-8751
6) COMPUTER OWNED : +4
7) HARDWARE : 1551 D/D, SEIK GP500 PRNT

Record number : 20
1) SURNAME : BEAZLEY
2) FORENAME/S : LAWRENCE PAUL
3) ADDRESS : 73 HEATHFIELD SOUTH, TWICKENHAM, MIDDLESEX
4) POSTCODE : TW2 7SR
5) TEL NUMBER/S : 081-892-2313
6) COMPUTER OWNED : +4
7) HARDWARE : 1551 D/D, MPS803, HR100 PRNT



1

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Record number : 21

1) SURNAME: : SCHULZ
2) FORENAME/S: : KARL
3) ADDRESS: : THEODOR-KOERNER STR.32, D-W-5630 REMSCHEID, GERMANY
4) POSTCODE: :
5) TEL NUMBER/S: : 01049-2191-21615
6) COMPUTER OWNED: : +4
7) HARDWARE: : 1551 D/D, SEIK SL80VC FRT

Record number : 22

1) SURNAME: : HUPPERT
2) FORENAME/S: : VOLKER
3) ADDRESS: : FERLINGEWEG 15, D-4150 KREFELD 1, GERMANY
4) POSTCODE: :
5) TEL NUMBER/S: : NOT NONE YET!
6) COMPUTER OWNED: : +4
7) HARDWARE: : NOT NONE YET!

Record number : 23

1) SURNAME: : STESIE
2) FORENAME/S: : MARKUS
3) ADDRESS: : DEISENHOFENER STR.39, D-8000 MUNCHEN 90, GERMANY
4) POSTCODE: :
5) TEL NUMBER/S: : 01049-89-6972594
6) COMPUTER OWNED: : +4
7) HARDWARE: : 1551 D/D, SEIK SP2000 FRT

Record number : 24

1) SURNAME: : FIEP
2) FORENAME/S: : GERHARD
3) ADDRESS: : OLMBERG 2, HANKENSBUTTEL 3122, GERMANY
4) POSTCODE: :
5) TEL NUMBER/S: : 01049-5832-6366
6) COMPUTER OWNED: : +4
7) HARDWARE: : 1551 D/D, STAR LC10 PRNTR

Record number : 25

1) SURNAME: : SCHRIEDER
2) FORENAME/S: : PETER
3) ADDRESS: : FRIEDRICH-HECKER-STR.29, D7850 LORRACH, GERMANY
4) POSTCODE: :
5) TEL NUMBER/S: : 01049-7621-47772
6) COMPUTER OWNED: : +4, C16+64K
7) HARDWARE: : 1541 D/D, SEIK SP180 PRNT

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Dear Roy

Could you please tell me if you know what the equivalent to the +4, on the VIC20, Memory Location 36879 and 7680, as I've got the book VIC 20 Innovative Computing.

Also I would like a comparison table with the locations for the C64 + Vic20, so I can convert the locations on programs for the +4.

Cheers

Peter Appleby
18 Abbey Road
Newstead
NOTTS
NG15 0BL

Dear Peter, I can't seem to help, because I lost my VIC20 book, but if anybody can please write to Peter at the above address.

Dear Roy

I've written to the German addresses about PLUVI Disk Magazine as you suggested, but got no reply from either as yet, this was a few weeks ago, just wondered if other members had, and had got a reply.

Please find enclosed a couple of programs I've slightly changed that were printed in Your Commodore 1986.

All the best
Peter Appleby

Prg. 1

```
10 REM SLOW PRINT
15 SCNCLR
20 A$="THIS STRING HOLDS YOUR MESSAGE"
30 LE=LEN(A$):L=(40-LE)/S:C=0
40 PRINT "(HOME) (5CD)";TAB(L)
50 FOR A=1 TO LE
60 PRINT MID$(A$,A,1);
70 FOR B=1 TO 200:NEXT B,A
80 IF C=1 THEN 140
90 PRINT "(CLEAR) (5CD) (RVSON)";TAB(L)
100 FOR A=1 TO LE
110 PRINT MID$(A$,A,1);
120 FOR B=1 TO 200:NEXT B,A
130 PRINT "(RVSOFF)";C=C+1:GOTO 40
140 END
```

Prg. 2

```
10 REM SCROLL STRING LEFT
15 SCNCLR:LL=15
20 A$="(16SPC)INSERT YOUR MESSAGE HERE..."
30 A$=A$+"UP TO 255 CHARS...."
40 LE=LEN(A$):L=(40-LL)/2
50 FOR A=1 TO LE
60 PRINT "(HOME) (5CD)";TAB(L)
70 PRINT MID$(A$,A,LL)
80 FOR B=1 TO 200:NEXT B,A
```

Creating Characters

Create better print quality for your Plus/4 with this

handy utility

By Frank Carson

The Plus/4 and MPS 803 with built-in software provides a means of creating characters at a price even my wicker approves of. The MPS 803-803 printers leave a lot to be desired and my method of improving the output is very welcome. In the February 1987 issue of *Your Commodore*, the program 'Word-Pro Add-On' was published which vastly improved the printout of these lowly machines.

The reasoning behind this program was to incorporate the *Serious Use Guide* (1987) descender set into the Plus/4 wordprocessor and to combine the two programs. The *Word-Pro Add On* program uses the bit image printer mode to reform certain characters and the underline.

Entering M/C Code

This is a complete machine code program and is entered using the built-in M/C monitor. For information regarding the monitor refer to Section 10.1 of the *Serious Use Guide*. The characters to be loaded between memory locations \$7000 to \$7AFF. To use the monitor print M then Shift -0 and press Return. The monitor status will then be displayed. The section of memory we require can now be filled with zeros. Enter F7000:7AFF.00 and press Return.

Enter M7000 and press Return. The contents at \$7000 will appear (all characters) and the memory now be altered (List 1 \$7000 to \$77FF).

>1000 80 80 80 80 80 00 00 Return
>1008 80 80 80 DE 80 80 00 00 Return
>7010 and so on

The new data is now in memory. Refresh the data and alter any errors.

as you go along. This data can be stored on disk at any time. I name 'X7000:7AFF' return, not be updated in this program each time! One system is to use the day and the location. Such as "THUS7098" - "THUS7130" etc. To load the file from the monitor: L THUS7130:8 Return. Then M7130 return. This will display the next location for data entry.

List 2 is very short \$7530 to \$7547
List 3 is a little longer \$7600 to \$76AF
List 4 is the main program. \$7900 to \$7AAF

List 1 was published in the *Serious Users Guide* 1987 as a basic program. (New characters on the MPS801/3 DESCENDER SET.) Listings of four other characters sets are supplied or you can design your own sets. Reprints will be available, details later.

Using Nulfont

The program is loaded directly from the disk. Enter the command LOAD:NUFONTT:81 Return

SYSS0000 return will initialise the program and load the wordprocessor. This will operate as normal. The reversed printing commands are used with asc codes for enhanced type and 4 software (See page 55 of the Plus/4 User's Manual).

Use asc:4; for enhanced mode asc:1; to underline asc:2; to highlight asc:3; to cancel Documents compiled using Nulfont or the standard software are interchangeable. Using the standard software the underline instructions will be ignored.

The asc commands can be called or cancelled at will. However the Plus/4 software has a mind of its own and you may find a command is ignored. The asc commands are the same as compared at the end of a line. In the case the command needs to be inserted at the beginning of the next line.

The Plus/4 makes no allowance for the extra space required in the enhanced mode. This must be taken into account by the operator.

The complete document can be in the mode but there will be only 40 characters per line. This is the equivalent of 24 lines to a sheet. Word wrap will not work.

It is important that any underline or enhance command are cancelled prior to the end of a document. Failure to do so can cause trouble if more than one copy is to be printed.

MPS 801 owners please note: I do not own a MPS 801 however I can see no reason why this program should cause any trouble using the MPS 801. I have written a program for the use of 'Wordpro Aid' On '4 (Your Commodore, February 1987) and 'New characters on the MPS 801/3' (Serious Users Guide 1987) are available as photocopiers from our Readers Services Department at HALF PRICE! £1.50 gets you both articles (normally £1.50 each).

Track-Name:
Readers Services Department
ASP Ltd.
9 Hall Road,
Hemel Hempstead,
Herts HP2 7BH.

See listings on page 82.

W.D. BRIGHTON 55B OCCUPATION LANE, SII:FIELD, S12 4PS TELEPHONE: 641046

VIDEO 4 TITLE MASTER I

Commodore Plus/4 owners!

This easy to use programme. Six lines with thirteen rows of large self centering text. 107 colours possible for border, screen, background and mixed character colours. Plus normal size text on line six for scrolling R-L or usual mode in mixed colours. Full instructions included.

cassette ~~ONLY~~ £9.99 inc. p&p

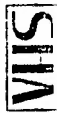
TITLE MASTER II

COMMODORE PLUS/4 & C64/128

A useful alternative to scrolling titles. Menu driven program allows you to design screens using five self centering text sizes (one size per line) Automatic or manual line selection. Change colour of any line or whole screen Easy to use. full instructions included Fastloading cassette £15.00 inc. P&P (State microl).

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book to
Club members
only

from: Mr. W. D. Brighton
c/o Occupation Lane
SHEFFIELD S12 4PS
0742 641046



Word-Pro Add-On

Many Plus/4 owners find the built in word processor inadequate. Here, we bring you a program which will vastly improve the quality of the hard copy you can generate

By William Sellers

The Plus/4 is now available as a very reasonable price word processing package, with a daisy disk and MFS803 printer. The built in software has been widely criticised, but, in fact the printer is probably the weakest link.

It has a rather unattractive character set which, due to economics in the printing trade, only uses 75 dots per inch. This means that it does not allow it to produce the high resolution so letters such as # and 3 are particularly ugly. This problem can be overcome by redefining these letters and using the graphics mode so that the descending parts can be printed on really quite impressive.

This would not, of course, be possible if the program ran in ROM but in fact the Plus/4 built in software merely loads itself from ROM into RAM and once there can be altered. To do this, the subroutine call needs to be changed so that the program has been moved into RAM. The change will be overwriting the program to be changed in the cassette buffer so that when the copyright message is printed, the program jumps to this routine which changes the required subroutine call and then resets the vector before returning to the main program. Now, when printer output is performed, the program jumps to the new output routine as required.

In Use

Type in the Basic loader, save a copy, reset the computer, load it again and run it. After an initial wait while the

redefined letters and removing control codes.

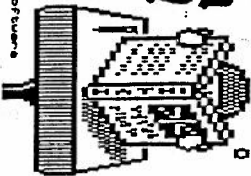
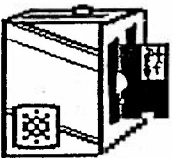
After a graphic mode interface, the line number of the program, this time underlines. Normally, such output redirection is achieved by changing the output vector at \$0174. Unfortunately, this general output routine is not called for printer output in this instance and the specific serial bus output routine is used which does not have a RAM address. The only way to redirect output is to use the only way to inhibit software and change it to jump to the new routine.

It was decided that the reverse graphics mode was not very useful but that the normal graphics characters be switched on by a <C> <S> character inserted into the text (not in reverse graphics) and off by a <SHIFT> <S> again. Similarly the software underlining is switched on by <SHIFT> <+> and off by the <SHIFT> <-> again.

The software underlining can be used by the program for single letters within a word. Double underlining is similar but it is not permitted in lower case characters. Double width is also switched off by a carriage return but the underline need to be switched off specifically. If active, whole series of characters and also page numbers can be printed.

An attribute is performed with graphic mode interface. So the line are printed per line of text. The line spacing is 36 lines per seven inches so

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Edip Avdın
Hendelstrasse 8
4046 Witschenbach
Germany

