commodore
HORIZONS

COMPUTER MUSIC
Rosetti's synthesizer
software packages

C16 AND PLUS/4
Mastering Basic
V3.5 commands

PROGRAMMING
Data sorting methods
made easy

THE COMMUNICATIONS TRIANGLE:
you, your computer, and your modem

**David Whittaker of
Terminal presents
more Lazy Jones**

TELEMOD 2

CARRIER   POWER   LINE   MODE

OEL

V24   SEIZE   AUTO   300/300
104   DTR
105   RTS   MANUAL 1200/75
133   RING   1200/1200
109   CARRIER   TELEMOD 2

Tandata Tm 110

Line   Power

**WIN 5 Cambridge
Computing SLOMOS**

LLAMASOFT

**Psychedelia competition
for CBM64, Vic 20 and C16**

Lazy rides

TERMINAL

Jones again

*Terminal's **David Whittaker** presents a new screen for his idle hero*

THIS MONTH'S Star Game for the 64 is from David Whittaker of Terminal Software.

Terminal started up four years ago as Terminal Music, a cassette, label and distribution business. It was theidea of Andy Hieke to explore the computer software field, and the company soon developed through the mail order field into direct selling to retail outlets.

Early Terminal games such as **Super Dogfight** and **Super Gridder** made way for more ambitious and advanced programs like **Star Commando** and **Plumb Crazy**.

David Whittaker's programming career developed via an interest in electronic music. He now has four synthesizers, and also plays guitar. During a break between tours with various bands in 1982 he took up programming on the Vic 20, and soon produced games such as Mr Micro's **Humphrey**. David, now 27, is working in 6502 and Z80 machine code, and is looking foward to using 16 and 32 bit computers. Commodore themselves market his games **Humphrey**, **Mayhem** and **Punchy**, but many would say that his greatest achieve-

ment to date is Terminal's **Lazy Jones.**

Lazy Jones is an idle hotel cleaner who would rather play video games than do any work. Terminal's game allows you to control Lazy Jones around the floors of his hotel, trying out each video game and avoiding the manager and the deadly cleaning trolley.

David has written a new screen for Lazy Jones which you can type in and play yourself.

The listing is in two parts, one to poke the character/code data and one for the game itself. Since there's a lot of data to type in, David's offering a copy of the program on cassette to anyone sending a cheque or postal order for £1.99 to him at 30 Cedar Place, Lower Broughton, Salford, M7 9NR.

To play the game use a joystick in port 2. You must control your missile projectors, which move left and right and up and down, and fire when the spinning artefact is aligned between them. Each time you hit the artifact it changes colour and you score points. You are playing against a time limit, so shoot fast if you want a high score! ∎

Program 1
```
0 REM ***** PROG1 *****
1 PRINTCHR$(147)"JUST A MOMENT..."
2 FORR=20160TO22996
3 READD:Q=Q+D
4 POKER,D
5 NEXT
6 IFQ<>251630THENPRINT"ERROR IN YOUR DATA.":END
7 PRINT"DATA SEEMS O.K."
8 PRINT"NOW LOAD PROG2":END
5000 DATA 10, 170, 160, 10, 170, 160, 10, 170, 160, 10, 170, 160, 10, 170
5001 DATA 160, 10, 170, 160, 10, 170, 160, 10, 170, 160, 10, 170, 160, 10
5002 DATA 170, 160, 10, 170, 160, 10, 170, 160, 10, 170, 160, 10, 170, 160
5003 DATA 10, 170, 160, 10, 170, 160, 0, 0, 0, 0, 0, 0, 0, 0
5004 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5005 DATA 0, 0, 0, 21, 85, 84, 42, 170, 168, 42, 170, 168, 42, 170
5006 DATA 168, 10, 170, 160, 10, 170, 160, 10, 170, 160, 10, 170, 160, 2
5007 DATA 170, 128, 2, 170, 128, 2, 170, 128, 0, 0, 0, 0, 0, 0
5008 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5009 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5010 DATA 0, 0, 0, 85, 85, 85, 85, 85, 85, 42, 170, 168, 10, 170
5011 DATA 160, 2, 170, 128, 0, 170, 0, 0, 0, 0, 0, 0, 0, 0
5012 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5013 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5014 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 170, 0
5015 DATA 2, 170, 128, 10, 170, 160, 42, 170, 168, 85, 85, 85, 85, 85
5016 DATA 85, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5017 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
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5018 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2, 170, 128, 2
5019 DATA 170, 128, 2, 170, 128, 10, 170, 160, 10, 170, 160, 10, 170, 160
5020 DATA 10, 170, 160, 10, 170, 160, 42, 170, 168, 42, 170, 168, 21, 85
5021 DATA 84, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5022 DATA 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 255, 255
5023 DATA 255, 255, 255, 255, 255, 255, 62, 99, 99, 127, 99, 99, 99, 99
5024 DATA 126, 99, 99, 126, 99, 99, 99, 126, 62, 99, 96, 96, 96, 96
5025 DATA 99, 62, 126, 99, 99, 99, 99, 99, 99, 126, 127, 99, 96, 124
5026 DATA 96, 96, 99, 127, 127, 99, 96, 124, 96, 96, 96, 96, 62, 99
5027 DATA 96, 96, 103, 99, 99, 62, 99, 99, 99, 127, 99, 99, 99, 99
5028 DATA 126, 24, 24, 24, 24, 24, 24, 126, 3, 3, 3, 3, 99, 99
5029 DATA 99, 62, 99, 102, 108, 120, 108, 102, 99, 99, 96, 96, 96, 96
5030 DATA 96, 96, 99, 127, 99, 119, 127, 107, 99, 99, 99, 99, 126, 99
5031 DATA 99, 99, 99, 99, 99, 99, 62, 99, 99, 99, 99, 99, 99, 62
5032 DATA 126, 99, 99, 126, 96, 96, 96, 96, 127, 191, 223, 239, 247, 251
5033 DATA 253, 254, 126, 99, 99, 126, 120, 108, 102, 99, 62, 99, 96, 62
5034 DATA 3, 99, 99, 62, 126, 24, 24, 24, 24, 24, 24, 24, 99, 99
5035 DATA 99, 99, 99, 99, 99, 62, 99, 99, 99, 99, 99, 54, 28, 8
5036 DATA 99, 99, 99, 99, 107, 127, 119, 99, 129, 129, 129, 255, 129, 129
5037 DATA 129, 129, 99, 99, 99, 63, 3, 99, 99, 62, 127, 99, 6, 12
5038 DATA 24, 48, 99, 127, 255, 192, 207, 207, 207, 207, 207, 207, 255, 0
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5042 DATA 252, 255, 255, 255, 0, 54, 54, 36, 0, 0, 0, 0, 16, 16
5043 DATA 8, 8, 4, 100, 152, 0, 0, 0, 12, 12, 12, 30, 63, 30
5044 DATA 0, 0, 121, 97, 120, 97, 121, 0, 0, 0, 179, 179, 227, 179
5045 DATA 179, 0, 0, 0, 126, 24, 24, 24, 24, 0, 0, 0, 0, 0
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5047 DATA 0, 36, 0, 0, 60, 0, 0, 66, 0, 0, 153, 0, 0, 153
5048 DATA 0, 0, 153, 0, 0, 153, 0, 0, 255, 0, 0, 102, 0, 0
5049 DATA 108, 0, 0, 254, 0, 1, 131, 0, 0, 0, 0, 0, 0, 0
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5053 DATA 6, 6, 127, 99, 96, 126, 3, 3, 99, 62, 62, 99, 96, 126
5054 DATA 99, 99, 99, 62, 127, 99, 6, 12, 24, 24, 24, 24, 62, 99
5055 DATA 99, 62, 99, 99, 99, 62, 62, 99, 99, 63, 3, 3, 99, 62
5056 DATA 1, 3, 7, 15, 31, 63, 127, 255, 254, 252, 248, 240, 224, 192
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5061 DATA 0, 0, 126, 102, 198, 204, 204, 204, 0, 0, 24, 48, 96, 204
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5064 DATA 0, 0, 248, 252, 204, 204, 204, 102, 0, 0, 124, 254, 198, 192
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5106 DATA 220, 220, 220, 220, 220, 220, 220, 220, 220, 217, 141, 151, 64, 64
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5121 DATA 141, 151, 64, 64, 154, 94, 31, 88, 88, 88, 88, 88, 88, 88
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5135 DATA 94, 31, 88, 88, 88, 88, 88, 88, 88, 88, 88, 88, 88, 88
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5137 DATA 154, 94, 221, 221, 221, 221, 221, 221, 221, 221, 221, 221, 221, 221
5138 DATA 221, 221, 221, 221, 221, 221, 221, 221, 95, 141, 32, 151, 60, 154
5139 DATA 94, 158, 83, 67, 79, 82, 69, 154, 221, 5, 48, 48, 48, 154
5140 DATA 221, 221, 221, 158, 84, 73, 77, 69, 154, 221, 5, 48, 48, 48
5141 DATA 154, 95, 141, 32, 32, 154, 218, 221, 221, 221, 221, 221, 221, 221
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5147 DATA 92, 93, 17, 157, 157, 157, 94, 33, 95, 17, 157, 157, 157, 94
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5150 DATA 3, 208, 169, 48, 141, 2, 208, 169, 204, 141, 249, 7, 169, 128
5151 DATA 141, 63, 3, 141, 4, 208, 169, 165, 141, 5, 208, 169, 205, 141
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5155 DATA 165, 142, 201, 126, 176, 247, 24, 105, 54, 141, 65, 3, 141, 0
5156 DATA 208, 32, 151, 224, 165, 142, 201, 70, 176, 247, 24, 105, 80, 141
5157 DATA 66, 3, 141, 1, 208, 169, 1, 141, 67, 3, 165, 141, 41, 1
5158 DATA 240, 5, 169, 255, 141, 67, 3, 169, 1, 141, 68, 3, 32, 151
5159 DATA 224, 165, 141, 41, 1, 240, 5, 169, 255, 141, 68, 3, 169, 0
5160 DATA 141, 78, 3, 169, 10, 141, 73, 3, 169, 0, 141, 69, 3, 141
5161 DATA 70, 3, 173, 0, 220, 74, 176, 5, 162, 255, 142, 69, 3, 74
5162 DATA 176, 5, 162, 1, 142, 69, 3, 74, 176, 5, 162, 255, 142, 70
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5167 DATA 173, 63, 3, 201, 48, 240, 6, 206, 63, 3, 32, 42, 52, 173
5168 DATA 70, 3, 201, 1, 208, 13, 173, 63, 3, 201, 198, 240, 6, 238
5169 DATA 63, 3, 32, 59, 52, 173, 62, 3, 141, 3, 208, 173, 63, 3
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5171 DATA 16, 169, 1, 141, 78, 3, 32, 219, 56, 24, 144, 5, 169, 0
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5174 DATA 5, 169, 11, 141, 39, 208, 224, 10, 208, 8, 162, 0, 173, 60
5175 DATA 3, 141, 39, 208, 142, 61, 3, 174, 64, 3, 232, 224, 192, 208
5176 DATA 2, 162, 187, 142, 64, 3, 142, 248, 7, 32, 151, 224, 165, 142
5177 DATA 201, 8, 176, 9, 169, 0, 56, 237, 67, 3, 141, 67, 3, 32
5178 DATA 151, 224, 165, 142, 201, 8, 176, 9, 169, 0, 56, 237, 68, 3
5179 DATA 141, 68, 3, 173, 65, 3, 24, 109, 67, 3, 201, 49, 240, 7
5180 DATA 201, 183, 240, 3, 141, 65, 3, 173, 66, 3, 24, 109, 68, 3
5181 DATA 201, 75, 240, 7, 201, 153, 240, 3, 141, 66, 3, 173, 65, 3
5182 DATA 141, 0, 208, 173, 66, 3, 141, 1, 208, 32, 94, 57, 206, 73
5183 DATA 3, 208, 8, 169, 10, 141, 73, 3, 32, 162, 57, 173, 76, 3
5184 DATA 208, 6, 173, 77, 3, 208, 1, 96, 76, 136, 55, 169, 2, 141
5185 DATA 33, 208, 174, 0, 208, 160, 20, 236, 63, 3, 240, 6, 232, 136
5186 DATA 16, 247, 48, 81, 174, 1, 208, 160, 20, 236, 62, 3, 240, 6
5187 DATA 232, 136, 16, 247, 48, 65, 32, 111, 57, 169, 1, 141, 79, 3
5188 DATA 169, 0, 141, 33, 208, 169, 11, 141, 5, 212, 160, 160, 173, 5
5189 DATA 208, 205, 1, 208, 240, 3, 206, 5, 208, 173, 2, 208, 205, 0
5190 DATA 208, 240, 3, 238, 2, 208, 140, 1, 212, 169, 128, 141, 4, 212
5191 DATA 169, 129, 141, 4, 212, 162, 0, 202, 208, 253, 136, 208, 213, 240
5192 DATA 5, 169, 8, 141, 5, 212, 169, 4, 141, 1, 212, 169, 32, 141
5193 DATA 4, 212, 169, 33, 141, 4, 212, 32, 94, 57, 169, 0, 141, 33
5194 DATA 208, 96, 169, 6, 133, 250, 169, 0, 133, 251, 198, 251, 208, 252
5195 DATA 198, 250, 208, 244, 96, 248, 173, 74, 3, 24, 105, 1, 141, 74
5196 DATA 3, 173, 75, 3, 105, 0, 141, 75, 3, 216, 41, 15, 24, 105
5197 DATA 48, 141, 137, 6, 173, 74, 3, 168, 74, 74, 74, 74, 24, 105
5198 DATA 48, 141, 138, 6, 152, 41, 15, 24, 105, 48, 141, 139, 6, 96
5199 DATA 248, 173, 76, 3, 56, 233, 1, 141, 76, 3, 173, 77, 3, 233
5200 DATA 0, 141, 77, 3, 216, 41, 15, 24, 105, 48, 141, 148, 6, 173
5201 DATA 76, 3, 168, 74, 74, 74, 74, 24, 105, 48, 141, 149, 6, 152
5202 DATA 41, 15, 24, 105, 48, 141, 150, 6, 96
5203 REM BET YOU'RE GLAD!
```

Program 2

```
0 REM ***** PROG2 *****
1 POKE52,46:POKE56,46:CLR:PRINTCHR$(8):POKE53272,29
2 POKE53280,0:POKE53281,0:POKE53269,0
3 GOSUB2000
4 HI=0:POKE53276,7:POKE53277,0:POKE53271,0:POKE53275,0:POKE53264,0
5 POKE54296,15:FORR=54272TO54295:POKER,0:NEXT
6 GOSUB1000
7 FORR=53248TO53263:POKER,0:NEXT
10 POKE53285,15:POKE53286,2
20 GOSUB500
22 POKE53269,31:POKE2043,197:POKE2044,202
23 POKE53255,220:POKE53257,220
24 POKE53290,9:POKE53291,10
25 POKE54277,12:POKE54276,128:POKE54276,129
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26 FORR=254T0138STEP-2
27 POKE54273,255-R:POKE53254,R:POKE53256,R:NEXT
48 POKE53288,1:POKE53289,1
90 SC=0:POKE842,0:POKE843,0:REM SCORE
92 POKE844,153:POKE845,9:REM TIME
100 SYS14052
110 SC=(PEEK(1673)-48)*100+(PEEK(1674)-48)*10+PEEK(1675)-48
115 POKE53269,0
120 PRINTCHR$(147)SPC(210)"YOUR SCORE WAS"SC
122 PRINTSPC(90)"THE HI SCORE IS"HI
124 IFHI<SCTHENPRINTSPC(124)"YOU HAVE THE NEW HI SCORE OF"SC:HI=SC
125 FORT=0TO1999:NEXT
130 PRINTSPC(169)"PRESS SPACE TO REPLAY"
140 GETA$:IFA$<>" "THEN140
150 GOTO5
500 FORR=13388TO14051
502 PRINTCHR$(PEEK(R));
504 NEXT
510 RETURN
1000 PRINTCHR$(147)SPC(208)"WELCOME TO THE WORLD OF"
1010 PRINTSPC(134)"LAZY  JONES"
1020 PRINTSPC(170)"BY DAVID WHITTAKER"
1030 PRINTSPC(251)"JOYSTICK  PORT 2"
1040 POKE54277,13:POKE54284,13:POKE54291,13
1042 POKE54273,4:POKE54280,4:POKE54287,4:POKE54272,0:POKE54279,8:POKE54286,16
1044 POKE54276,32:POKE54283,32:POKE54290,32
1046 POKE54276,33:POKE54283,33:POKE54290,33
1050 FORT=0TO3999:NEXT
1060 RETURN
2000 FORR=32768TO32804:READD:POKER,D:NEXT:SYS32768:RETURN
2001 DATA169,192,133,250,133,252,169,78,133,251,169,46,133,253,160,0,177,250
2002 DATA145,252,230,250,230,252,208,246,230,251,230,253,165,253,201,58,208,236
2003 DATA96
```