Schnell wie der Wind

»Hypra-Load« und »Hypra-Save« für den VC 20 mit der Floppy 1541. Laden Sie Ihre Programme mit sechsfacher Geschwindigkeit und speichern Sie sie dreimal schneller. Beide Programme in einem, das ist für Sie eine wertvolle Arbeitserleichterung.

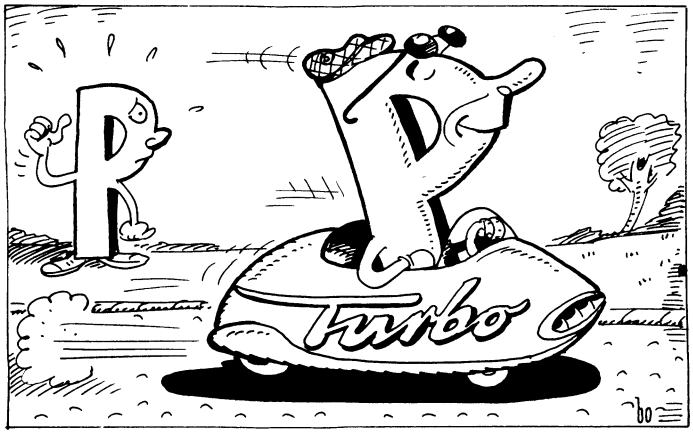
Schnelles Laden und Speichern ist nun nicht mehr dem C64 vorbehalten. Der VC 20 verfällt nunmehr in einen wahren Geschwindigkeitsrausch. Jeder, der sich intensiv mit dem VC 20 beschäftigt, wird diesen Floppy-Speeder zu schätzen wissen.

Das Prinzip der Übertragung ist dasselbe wie beim C64. Der serielle Bus wird zur Zwei-Bit-Parallelübertragung »mißbraucht«. Synchronisiert wird lediglich über die Taktfrequenz. Das Programm selbst befindet sich im Bereich ab $A000. Vor jedem Lade- oder Speichervorgang wird ein Programm in die Floppy geschrieben, das für die schnellere Übertragung verantwortlich ist.

Geben Sie das Programm »Hypra-System« (siehe Listing) am besten mit dem Checksummer VC 20 ein und speichern Sie es. Beim Starten wird auf der Diskette das Programmfile »Hypra-System VC 20« generiert.

Sind alle DATAs korrekt eingegeben, können Sie »Hypra-System VC 20« laden und durch einen Reset (oder SYS 64802) aktivieren. Einmal gestartet, läßt es sich auch durch RUN/STOP-RESTORE nicht mehr deaktivieren.

Programme, die den Bereich ab $A000 benutzen, überschreiben das »Hypra-System« und verursachen dadurch meistens einen Absturz. Der Schnelllader ist natürlich mit den meisten Programmen lauffähig. (K.-H. Templin/og)

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  141,253,32,82,253,32,249,253,32                <044>
1 DATA 24,229,88,32,91,228,32,164,227,32,9
  5,160,32,40,160,162,251,154,76                 <049>
2 DATA 116,196,165,43,164,44,32,8,196,169,
  54,160,160,76,15,228,147,42,42                 <117>
3 DATA 42,42,32,72,89,80,82,65,45,83,89,83
  ,84,69,77,32,42,42,42,42,13,0                  <123>
4 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,169
  ,148,160,160,141,48,3,140,49,3                 <021>
5 DATA 169,152,160,164,141,50,3,140,51,3,9
  6,44,17,145,32,52,247,32,225,255               <217>
6 DATA 208,9,32,82,253,32,95,160,76,213,25
  4,76,86,255,76,202,245,76,135                  <121>
7 DATA 247,76,144,245,133,147,169,0,133,14
  4,165,186,208,3,76,150,247,201                 <010>
8 DATA 3,240,249,144,228,164,183,208,3,76,
  147,247,32,188,228,169,96,133                  <014>
9 DATA 185,32,149,244,165,186,32,20,238,16
  5,185,32,206,238,32,25,239,133                 <017>
10 DATA 174,165,144,74,74,176,193,32,25,23
  9,133,175,32,193,228,169,253,37                <099>
11 DATA 144,133,144,165,147,208,178,160,0,
  177,187,201,36,240,170,169,1,133               <254>
12 DATA 167,169,0,133,144,165,167,32,23,23
  8,169,111,32,192,238,165,144,16                <072>
13 DATA 11,230,167,165,167,201,16,208,230,
  76,59,161,165,167,201,8,240,239                <088>
14 DATA 160,0,185,35,161,240,6,32,210,255,
  200,208,245,32,225,255,208,251                 <181>
15 DATA 76,59,161,13,78,85,82,32,70,76,79,
  80,80,89,32,65,78,83,67,72,65,76               <181>
16 DATA 84,69,78,33,0,169,162,162,162,133,
  167,134,168,169,0,162,3,133,169                <049>
17 DATA 134,170,169,8,32,23,238,169,111,32
  ,192,238,169,77,32,228,238,169                 <177>
18 DATA 45,32,228,238,169,87,32,228,238,16
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19 DATA 32,228,238,169,30,32,228,238,177,1
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  ,144,3,230,168,24,165,169,166,170              <010>
21 DATA 105,30,133,169,144,2,230,170,224,5
  ,144,173,201,0,144,169,169,8,32                <013>
22 DATA 23,238,169,111,32,192,238,169,77,3
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  69,4,32,228,238,32,1,239,32,209                <057>
24 DATA 161,166,174,164,175,88,96,120,169,
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30 DATA 176,234,234,202,208,242,165,176,73
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31 DATA 160,0,169,128,141,31,145,173,31,14
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32 DATA 162,7,202,208,253,173,31,145,106,1
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33 DATA 234,234,173,31,145,106,102,176,106
  ,102,176,234,234,234,234,234,173               <157>
34 DATA 31,145,106,102,176,106,102,176,234
  ,234,234,234,234,173,31,145,106                <090>
35 DATA 102,176,106,102,176,165,176,73,255
  ,153,0,175,200,208,173,96,165,0                <170>
36 DATA 41,6,201,2,240,3,76,158,253,234,16
  9,5,133,9,162,90,134,75,162,0,169              <087>
37 DATA 82,133,36,32,86,245,80,254,184,173
  ,1,28,197,36,240,9,198,75,208,239              <203>
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39 DATA 151,244,165,22,69,23,69,24,69,25,6
  9,26,240,7,198,9,208,192,76,30                 <192>
40 DATA 244,165,24,197,6,240,3,76,11,244,1
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41 DATA 18,166,19,133,22,134,23,165,6,133,
  24,165,7,133,25,169,0,69,22,69                 <236>
42 DATA 23,69,24,69,25,133,26,32,52,249,16
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43 DATA 173,1,28,217,36,0,240,6,202,208,23
  7,76,81,245,200,192,8,208,234,32               <246>
44 DATA 86,245,80,254,184,173,1,28,145,48,
  200,208,245,160,186,80,254,184                 <156>
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45 DATA 173,1,28,153,0,1,200,208,244,32,22
   4,248,165,56,197,71,240,3,76,246          <244>
46 DATA 244,32,233,245,197,58,240,3,76,2,2
   45,160,0,169,85,32,82,4,185,0,6           <107>
47 DATA 133,119,44,0,24,16,251,169,16,141,
   0,24,44,0,24,48,251,162,0,138,102         <139>
48 DATA 119,42,42,102,119,42,42,141,0,24,1
   38,102,119,42,42,102,119,42,42            <155>
49 DATA 141,0,24,138,102,119,42,42,102,119
   ,42,42,141,0,24,138,102,119,42            <151>
50 DATA 42,102,119,42,42,141,0,24,162,2,20
   2,208,253,169,15,141,0,24,200,208         <037>
51 DATA 173,234,234,234,234,234,234,234,17
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52 DATA 3,76,158,253,197,24,208,249,133,6,
   173,1,6,133,7,76,101,3,133,119            <163>
53 DATA 44,0,24,16,251,169,16,141,0,24,44,
   0,24,48,251,162,4,169,0,102,119           <213>
54 DATA 42,42,102,119,42,42,141,0,24,202,2
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   ,0,48,252,120,96,120,234,234,234          <107>
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   65,25,141,1,6,133,7,169,4,133,120         <120>
57 DATA 169,226,32,130,4,201,2,144,51,160,
   0,132,120,164,120,185,219,254,240         <203>
58 DATA 18,88,32,118,214,120,169,226,32,13
   0,4,201,2,144,26,230,120,208,231          <242>
59 DATA 169,192,32,130,4,169,226,32,130,4,
   201,2,144,8,169,255,32,82,4,76            <213>
60 DATA 34,235,173,0,6,240,248,197,24,240,
   196,173,0,6,133,6,173,1,6,133,7           <216>
61 DATA 76,160,4,165,186,201,4,176,3,76,13
   3,246,120,186,142,216,168,173,25          <092>
62 DATA 3,141,217,168,173,24,3,141,218,168
   ,169,11,141,24,3,169,166,141,25           <247>
63 DATA 3,173,44,145,141,31,1,88,169,97,13
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64 DATA 42,208,10,162,76,198,183,230,187,2
   08,2,230,188,142,46,168,169,165           <090>
65 DATA 72,169,240,72,165,183,208,3,76,132
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66 DATA 32,23,238,165,185,32,192,238,169,0
   ,133,144,32,228,238,32,228,238            <241>
67 DATA 32,4,239,165,144,240,2,24,96,169,1
   59,162,166,133,172,134,173,169            <166>
68 DATA 70,162,1,133,20,134,21,162,5,165,1
   86,32,23,238,169,111,32,192,238           <076>
69 DATA 160,253,185,154,165,32,228,238,200
   ,208,247,165,20,32,228,238,165            <142>
70 DATA 21,32,228,238,169,31,32,228,238,16
   0,0,177,172,32,228,238,200,192            <122>
71 DATA 31,144,246,32,4,239,165,172,24,105
   ,31,133,172,144,2,230,173,165,20          <091>
72 DATA 24,105,31,133,20,144,2,230,21,202,
   208,180,165,186,32,23,238,169,111         <014>
73 DATA 32,192,238,160,251,185,159,165,32,
   228,238,200,208,247,32,4,239,120          <129>
74 DATA 162,0,142,31,145,169,220,141,44,14
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76 DATA 232,208,247,32,131,166,32,210,251,
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77 DATA 173,157,1,175,232,32,17,253,176,23
   ,160,0,177,172,157,1,175,232,32           <084>
78 DATA 27,253,224,255,144,236,32,17,253,1
   76,3,169,255,44,169,0,72,141,0            <112>
79 DATA 175,142,1,175,32,131,166,162,1,104
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80 DATA 44,145,120,173,218,168,141,24,3,17
   3,217,168,141,25,3,104,174,216            <132>
81 DATA 168,154,96,56,173,31,1,9,2,141,31,
   1,176,217,185,0,175,133,149,162           <074>
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84 DATA 145,42,42,42,6,149,42,42,42,42,6,1
   49,42,42,141,44,145,42,42,42,6            <119>
85 DATA 149,42,42,42,42,6,149,42,42,141,44
   ,145,42,42,42,6,149,42,42,42,42           <144>
86 DATA 6,149,42,42,141,44,145,234,234,234
   ,234,234,169,220,141,44,145,200           <167>
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   208,250,133,20,32,22,166,136,165          <224>
88 DATA 20,76,25,166,77,45,87,77,45,69,187
   ,1,160,0,132,17,169,2,141,0,24            <109>
89 DATA 169,4,44,0,24,240,251,169,0,141,0,
   24,162,4,202,208,253,162,10,173           <046>
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   01,0,173,0,24,74,38,133,74,74,38          <190>
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   74,74,38,133,97,0,101,0,173,0,24          <054>
92 DATA 142,0,24,74,38,133,74,74,38,133,16
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93 DATA 166,136,96,133,49,32,70,1,177,48,7
   2,32,74,1,104,145,48,165,17,240           <251>
94 DATA 237,76,67,232,120,169,10,141,0,24,
   162,0,136,208,253,202,208,250,169          <212>
95 DATA 10,133,105,169,0,133,48,169,3,32,1
   66,1,169,4,32,166,1,76,61,4,165           <038>
96 DATA 0,162,1,134,0,41,2,240,16,166,152,
   134,50,32,46,4,32,175,3,32,3,4             <180>
97 DATA 76,105,249,162,8,32,53,3,162,10,32
   ,53,3,162,8,32,245,3,162,10,32             <053>
98 DATA 245,3,165,140,48,232,76,105,249,13
   4,50,134,152,165,140,16,97,181             <142>
99 DATA 131,208,93,189,49,4,32,166,1,200,1
   66,50,169,128,149,131,165,128,149          <224>
100 DATA 0,165,129,149,1,177,48,240,28,32,
    33,241,166,130,246,181,208,2,246          <205>
101 DATA 187,160,0,165,128,145,48,200,165,
    129,145,48,165,128,197,34,240,2           <066>
102 DATA 132,140,166,50,169,0,133,48,133,5
    1,133,46,133,54,133,12,133,80,169         <164>
103 DATA 187,133,52,189,49,4,133,47,32,233
    ,245,133,58,189,50,4,32,163,247           <091>
104 DATA 166,50,181,131,240,82,32,46,4,173
    ,0,28,41,16,208,3,76,129,245,32           <223>
105 DATA 16,245,162,9,80,254,184,202,208,2
    50,169,255,141,3,28,173,12,28,41          <222>
106 DATA 31,9,192,141,12,28,169,255,162,5,
    141,1,28,184,80,254,184,202,208           <238>
107 DATA 250,160,187,177,12,80,254,184,141
    ,1,28,200,208,245,177,48,80,254           <201>
108 DATA 184,141,1,28,200,208,245,80,254,7
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109 DATA 181,131,240,244,32,46,4,32,10,245
    ,160,187,177,12,80,254,184,77,1           <122>
110 DATA 28,208,25,200,208,243,177,48,80,2
    54,184,77,1,28,208,12,200,192,253         <237>
111 DATA 208,241,166,50,169,0,149,131,96,7
    6,197,246,189,49,4,133,49,189,50          <084>
112 DATA 4,133,13,96,5,1,6,4,88,32,25,241,
    169,132,213,167,240,5,149,167,32          <196>
113 DATA 66,208,169,64,141,249,2,169,1,133
    ,131,32,7,209,144,3,76,248,207,32         <160>
114 DATA 62,222,246,181,169,0,133,139,133,
    141,169,128,133,140,165,128,133           <233>
115 DATA 6,169,224,133,0,165,0,48,252,240,
    36,201,1,240,234,165,24,133,6,165         <008>
116 DATA 25,133,7,162,0,169,176,32,125,213
    ,32,153,213,169,226,32,125,213,32         <096>
117 DATA 153,213,165,140,208,204,240,206,7
    6,35,219,0                                <230>
190 OPEN 1,8,15:CLOSE 1:IF ST=0 THEN 200      <065>
195 PRINT"BITTE FLOPPY ANSCHLIESSEN, DANN
    <SPACE>"                                  <183>
196 GET T$:IF T$<>" "THEN 196                 <023>
197 GOTO 190                                  <013>
200 OPEN 8,8,8,"HYPRA-SYST VC20,P,W"          <068>
210 PRINT#8,CHR$(0)CHR$(160);                 <002>
220 FOR I=0 TO 2264:READ A:P=P+A:PRINT#8,C
    HR$(A);:NEXT                              <019>
230 CLOSE 8                                   <041>
240 IF P<>266756 THEN PRINT"DATAS NICHT OK
    ":STOP                                    <166>
250 PRINT"DATAS OK"                           <193>
```

Listing. »Hypra-System«. Beim Starten wird das eigentliche Programm auf der Diskette generiert. Beachten Sie die Eingabehinweise auf Seite 129.