

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "Insta-Disk INFLATE, INFLATE.L"
0800      2      ;
0800      3      ;
0800      4      ; INFLATE.L
0800      5      ;
0800      6      ; 2024 February 14
0800      7      ;
0800      8      ;
0800      9      ; This softawre is based on the work of Egan Ford.
0800     10      ;
0800     11      ;
0800     12      ; DOS 4.5, Build 06
0800     13      ;
0800     14      ; 2024 February 14
0800     15      ;
0800     16      ;
0800     17      ; Start of Source Code:  0x4000
0800     18      ; Start of Symbol List:  0x7800
0800     19      ;
0800     20      ;
0800     21      ; Copyright (c) 2024 February 14 by
0800     22      ; Walland Philip Vrbancic Jr.
0800     23      ;
0800     24      ; 6223 East Peabody Street
0800     25      ; Long Beach, California  90808
0800     26      ; United States of America
0800     27      ;
0800     28      ; All Rights Reserved
0800     29      ;
0800     30      ; This software is the confidential and
0800     31      ; proprietary intellectual property of
0800     32      ; Walland Philip Vrbancic Jr.
0800     33      ;
0800     34      ;
0010     35      LOC10      epz $10
0012     36      LOC12      epz $12
0014     37      LOC14      epz $14
0015     38      LOC15      epz $15
0016     39      LOC16      epz $16
0018     40      LOC18      epz $18
0019     41      LOC19      epz $19
0800     42      ;
0800     43      ;          enz
0800     44      ;
0000     45      ZERO      equ $00
00FF     46      NEGONE    equ $FF
0800     47      ;
B000     48      DATALOAD equ $B000
B200     49      DISKCOPY  equ $B200
B800     50      INFLATE   equ $B800
0800     51      ;
BA00     52      BUFFER1   equ INFLATE+$200
BB00     53      BUFFER2   equ BUFFER1+$100
BC00     54      BUFFER3   equ BUFFER2+$100
0800     55      ;
0800     56      ;
B800     57      ;          org INFLATE
B800     58      ;          obj $900
B800     59      ;          usr
B800     60      ;
```

```

B800          61 ;
B800 A0 00    62      ldy #ZERO
B802          63 ;
B802 84 14    64      sty LOC14
B804          65 ;
B804 84 15    66 ^1    sty LOC15
B806          67 ;
B806 A9 84    68      lda #$84
B808          69 ;
B808 20 A3 B9 70      jsr SUB06
B80B          71 ;
B80B 4A       72      lsr
B80C          73 ;
B80C 08       74      php
B80D          75 ;
B80D AA       76      tax
B80E D0 1F    77      bne >4
B810          78 ;
B810 84 14    79      sty LOC14
B812          80 ;
B812 20 AC B9 81      jsr SUB07
B815 20 AC B9 82      jsr SUB07
B818          83 ;
B818 85 15    84      sta LOC15
B81A          85 ;
B81A B0 08    86      bcs >3
B81C          87 ;
B81C 20 B0 B9 88 ^2    jsr SUB08
B81F          89 ;
B81F          90 ;
B81F 20 D2 B9 91 BRNCH1 jsr SUB12
B822 90 75    92      bcc BRNCH3
B824          93 ;
B824 E8       94 ^3    inx
B825 D0 F5    95      bne <2
B827          96 ;
B827 E6 15    97      inc LOC15
B829 D0 F1    98      bne <2
B82B          99 ;
B82B          100 ;
B82B 28       101 BRNCH2 plp
B82C 90 D6    102      bcc <1
B82E          103 ;
B82E 60       104      rts
B82F          105 ;
B82F          106 ;
B82F A9 04    107 ^4    lda #4
B831          108 ;
B831 C0 90    109      cpy #$90
B833          110 ;
B833 2A       111      rol
B834 99 00 BA 112      sta BUFFER1,Y
B837          113 ;
B837 C0 3E    114      cpy #$3E
B839 B0 0D    115      bcs >6
B83B          116 ;
B83B A9 15    117      lda #$15
B83D          118 ;
B83D C0 20    119      cpy #$20
B83F B0 04    120      bcs >5
B841          121 ;

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B841	C0	18	122		cpy #\$18
B843			123	;	
B843	69	F2	124		adc #\$F2
B845			125	;	
B845	99	00	126	^5	sta BUFFER2,Y
B848			127	;	
B848	C8		128	^6	iny
B849	D0	E4	129		bne <4
B84B			130	;	
B84B	A9	20	131		lda #\$20
B84D	85	19	132		sta LOC19
B84F			133	;	
B84F	CA		134		dex
B850	F0	44	135		beq >5
B852			136	;	
B852	20	F5	137		jsr SUB01
B855			138	;	
B855	A2	00	139		ldx #ZERO
B857			140	;	
B857	08		141	^7	php
B858			142	;	
B858	86	16	143		stx LOC16
B85A			144	;	
B85A	20	73	145		jsr SUB03
B85D			146	;	
B85D	AA		147		tax
B85E	10	14	148		bpl >9
B860			149	;	
B860	20	A3	150		jsr SUB06
B863			151	;	
B863	69	01	152		adc #1
B865			153	;	
B865	E0	C0	154		cpx #\$C0
B867	90	02	155		bcc >8
B869			156	;	
B869	69	07	157		adc #7
B86B			158	;	
B86B	A8		159	^8	tay
B86C			160	;	
B86C	A9	00	161		lda #ZERO
B86E			162	;	
B86E	E0	84	163		cpx #\$84
B870	B0	02	164		bcs >9
B872			165	;	
B872	A5	17	166		lda LOC16+1
B874			167	;	
B874	C8		168	^9	iny
B875			169	;	
B875	A6	16	170		ldx LOC16
B877			171	;	
B877	28		172		plp
B878			173	;	
B878	90	0D	174	^1	bcc >3
B87A			175	;	
B87A	9D	00	176		sta BUFFER1,X
B87D			177	;	
B87D	E8		178		inx
B87E			179	;	
B87E	E0	01	180		cpx #1
B880			181	;	
B880	88		182	^2	dey

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B881 D0 F5      183      bne <1
B883           184      ;
B883 85 17      185      sta LOC16+1
B885           186      ;
B885 F0 D0      187      beq <7          ; always taken
B887           188      ;
B887 E4 19      189      ^3      cpx LOC19
B889 90 02      190      bcc >4
B88B           191      ;
B88B 09 10      192      ora #$10
B88D           193      ;
B88D 9D 00 BB   194      ^4      sta BUFFER2,X
B890           195      ;
B890 E8         196      inx
B891           197      ;
B891 E4 18      198      cpx LOC18
B893 90 EB      199      bcc <2
B895           200      ;
B895 88         201      dey
B896           202      ;
B896 20 24 B9   203      ^5      jsr SUB02
B899           204      ;
B899           205      ;
B899 20 73 B9   206      BRNCH3   jsr SUB03
B89C 90 81      207      bcc BRNCH1
B89E           208      ;
B89E AA         209      tax
B89F F0 8A      210      beq BRNCH2
B8A1           211      ;
B8A1 84 15      212      sty LOC15
B8A3           213      ;
B8A3 C9 09      214      cmp #9
B8A5 90 14      215      bcc >6
B8A7           216      ;
B8A7 98         217      tya
B8A8           218      ;
B8A8 E0 1D      219      cpx #29
B8AA B0 0F      220      bcs >6
B8AC           221      ;
B8AC CA         222      dex
B8AD 8A         223      txa
B8AE           224      ;
B8AE 4A         225      lsr
B8AF 66 15      226      ror LOC15
B8B1           227      ;
B8B1 E6 15      228      inc LOC15
B8B3           229      ;
B8B3 4A         230      lsr
B8B4 26 15      231      rol LOC15
B8B6           232      ;
B8B6 20 99 B9   233      jsr SUB05
B8B9           234      ;
B8B9 69 00      235      adc #ZERO
B8BB           236      ;
B8BB 85 18      237      ^6      sta LOC18
B8BD           238      ;
B8BD A2 10      239      ldx #16
B8BF           240      ;
B8BF 20 75 B9   241      jsr SUB04
B8C2           242      ;
B8C2 E5 19      243      sbc LOC19

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B8C4 AA          244      tax
B8C5             245      ;
B8C5 C9 04       246      cmp #4
B8C7 90 06       247      bcc >7
B8C9             248      ;
B8C9 E6 15       249      inc LOC15
B8CB             250      ;
B8CB 4A          251      lsr
B8CC             252      ;
B8CC 20 99 B9     253      jsr SUB05
B8CF             254      ;
B8CF 49 FF       255      ^7 eor #NEGONE
B8D1 85 16       256      sta LOC16
B8D3             257      ;
B8D3 A5 15       258      lda LOC15
B8D5             259      ;
B8D5 E0 0A       260      cpx #10
B8D7 90 07       261      bcc >8
B8D9             262      ;
B8D9 BD D3 B9     263      lda DATA1-10,X
B8DC             264      ;
B8DC 20 A3 B9     265      jsr SUB06
B8DF             266      ;
B8DF 18          267      clc
B8E0             268      ;
B8E0 49 FF       269      ^8 eor #NEGONE
B8E2 65 13       270      adc LOC12+1
B8E4 85 17       271      sta LOC16+1
B8E6             272      ;
B8E6 20 CC B9     273      jsr SUB11
B8E9 20 CC B9     274      jsr SUB11
B8EC             275      ;
B8EC 20 CC B9     276      ^9 jsr SUB11
B8EF             277      ;
B8EF C6 18       278      dec LOC18
B8F1 D0 F9       279      bne <9
B8F3             280      ;
B8F3 F0 A4       281      beq BRNCH3          ; always taken
B8F5             282      ;
B8F5             283      ;
B8F5 98          284      SUB01 tya
B8F6             285      ;
B8F6 99 00 BA     286      ^1 sta BUFFER1,Y
B8F9 99 3E BA     287      sta BUFFER1+$3E,Y
B8FC             288      ;
B8FC C8          289      iny
B8FD D0 F7       290      bne <1
B8FF             291      ;
B8FF A2 03       292      ldx #3
B901             293      ;
B901 BD F6 B9     294      ^2 lda DATA3,X
B904             295      ;
B904 20 A3 B9     296      jsr SUB06
B907             297      ;
B907 7D F9 B9     298      adc DATA3+3,X
B90A 95 16       299      sta LOC16,X
B90C 8D FB B9     300      sta DATA3+5
B90F             301      ;
B90F CA          302      dex
B910 D0 EF       303      bne <2
B912             304      ;

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B912 A9 84      305 ^3      lda #$84
B914           306 ;
B914 20 A3 B9   307      jsr SUB06
B917           308 ;
B917 BC E4 B9   309      ldy DATA2,X
B91A           310 ;
B91A 99 00 BA   311      sta BUFFER1,Y
B91D           312 ;
B91D A0 00      313      ldy #ZERO
B91F           314 ;
B91F E8         315      inx
B920           316 ;
B920 E4 17      317      cpx LOC16+1
B922 90 EE      318      bcc <3
B924           319 ;
B924           320 ;
B924 98         321 SUB02   tya
B925           322 ;
B925 99 3E BB   323 ^4      sta BUFFER2+$3E,Y
B928           324 ;
B928 C8         325      iny
B929 D0 FA      326      bne <4
B92B           327 ;
B92B BE 00 BA   328 ^5      ldx BUFFER1,Y
B92E           329 ;
B92E FE 5E BB   330      inc BUFFER2+$5E,X
B931 FE 3E BB   331      inc BUFFER2+$3E,X
B934           332 ;
B934 C0 3E      333      cpy #$3E
B936 B0 09      334      bcs >6
B938           335 ;
B938 BE 00 BB   336      ldx BUFFER2,Y
B93B           337 ;
B93B FE 6E BB   338      inc BUFFER2+$6E,X
B93E FE 3E BB   339      inc BUFFER2+$3E,X
B941           340 ;
B941 C8         341 ^6      iny
B942 D0 E7      342      bne <5
B944           343 ;
B944 A2 D0      344      ldx #$D0
B946           345 ;
B946 9D BE BA   346 ^7      sta BUFFER1+$BE,X
B949           347 ;
B949 18         348      clc
B94A           349 ;
B94A 7D 8E BA   350      adc BUFFER1+$8E,X
B94D           351 ;
B94D E8         352      inx
B94E D0 F6      353      bne <7
B950           354 ;
B950 98         355 ^8      tya
B951           356 ;
B951 BE 00 BA   357      ldx BUFFER1,Y
B954 BC 8E BB   358      ldy BUFFER2+$8E,X
B957           359 ;
B957 FE 8E BB   360      inc BUFFER2+$8E,X
B95A           361 ;
B95A 99 BE BB   362      sta BUFFER2+$BE,Y
B95D A8         363      tay
B95E           364 ;
B95E C0 3E      365      cpy #$3E

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B960 B0 0D      366      bcs >9
B962           367      ;
B962 BE 00 BB   368      ldx BUFFER2,Y
B965 BC 9E BB   369      ldy BUFFER2+$9E,X
B968           370      ;
B968 FE 9E BB   371      inc BUFFER2+$9E,X
B96B           372      ;
B96B 99 BE BC   373      sta BUFFER3+$BE,Y
B96E A8         374      tay
B96F           375      ;
B96F C8         376      ^9      iny
B970 D0 DE      377      bne <8
B972           378      ;
B972 60         379      rts
B973           380      ;
B973           381      ;
B973 A2 00      382      SUB03      ldx #ZERO
B975           383      ;
B975           384      ;
B975 98         385      SUB04      tya
B976           386      ;
B976 20 B9 B9   387      ^1      jsr SUB10
B979           388      ;
B979 2A         389      rol
B97A           390      ;
B97A E8         391      inx
B97B           392      ;
B97B 38         393      sec
B97C           394      ;
B97C FD 3E BB   395      sbc BUFFER2+$3E,X
B97F B0 F5      396      bcs <1
B981           397      ;
B981 7D 6E BB   398      adc BUFFER2+$6E,X
B984 B0 09      399      bcs >2
B986           400      ;
B986 7D 8E BB   401      adc BUFFER2+$8E,X
B989 AA         402      tax
B98A           403      ;
B98A BD BE BB   404      lda BUFFER2+$BE,X
B98D           405      ;
B98D 18         406      clc
B98E           407      ;
B98E 60         408      rts
B98F           409      ;
B98F           410      ;
B98F 18         411      ^2      clc
B990           412      ;
B990 7D 9D BB   413      adc BUFFER2+$9D,X
B993 AA         414      tax
B994           415      ;
B994 BD BE BC   416      lda BUFFER3+$BE,X
B997           417      ;
B997 38         418      sec
B998           419      ;
B998 60         420      rts
B999           421      ;
B999           422      ;
B999 26 15      423      SUB05      rol LOC15
B99B AA         424      tax
B99C           425      ;
B99C C9 09      426      cmp #9

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```
B99E B0 10      427      bcs SUB08
B9A0            428      ;
B9A0 BD DB B9   429      lda DATA2-9,X
B9A3            430      ;
B9A3            431      ;
B9A3 20 B2 B9   432 SUB06   jsr SUB09
B9A6            433      ;
B9A6 46 15      434 ^3     lsr LOC15
B9A8            435      ;
B9A8 6A         436      ror
B9A9 90 FB      437      bcc <3
B9AB            438      ;
B9AB 60         439      rts
B9AC            440      ;
B9AC            441      ;
B9AC 20 B0 B9   442 SUB07   jsr SUB08
B9AF            443      ;
B9AF AA         444      tax
B9B0            445      ;
B9B0            446      ;
B9B0 A9 80      447 SUB08   lda #$80
B9B2            448      ;
B9B2            449      ;
B9B2 20 B9 B9   450 SUB09   jsr SUB10
B9B5            451      ;
B9B5 6A         452      ror
B9B6 90 FA      453      bcc SUB09
B9B8            454      ;
B9B8 60         455      rts
B9B9            456      ;
B9B9            457      ;
B9B9 46 14      458 SUB10   lsr LOC14
B9BB D0 0E      459      bne >5
B9BD            460      ;
B9BD 48         461      pha
B9BE            462      ;
B9BE B1 10      463      lda (LOC10),Y
B9C0            464      ;
B9C0 E6 10      465      inc LOC10
B9C2 D0 02      466      bne >4
B9C4            467      ;
B9C4 E6 11      468      inc LOC10+1
B9C6            469      ;
B9C6 38         470 ^4     sec
B9C7 6A         471      ror
B9C8            472      ;
B9C8 85 14      473      sta LOC14
B9CA            474      ;
B9CA 68         475      pla
B9CB            476      ;
B9CB 60         477 ^5     rts
B9CC            478      ;
B9CC            479      ;
B9CC A4 12      480 SUB11   ldy LOC12
B9CE            481      ;
B9CE B1 16      482      lda (LOC16),Y
B9D0            483      ;
B9D0 A0 00      484      ldy #ZERO
B9D2            485      ;
B9D2            486      ;
B9D2 91 12      487 SUB12   sta (LOC12),Y
```

```
B9D4          488 ;
B9D4 E6 12    489      inc LOC12
B9D6 D0 04    490      bne >6
B9D8          491 ;
B9D8 E6 13    492      inc LOC12+1
B9DA E6 17    493      inc LOC16+1
B9DC          494 ;
B9DC 60       495      ^6      rts
B9DD          496 ;
B9DD          497 ;
B9DD 81 82 84 498 DATA1    hex 8182848890A0C0
B9E0 88 90 A0
B9E3 C0
B9E4          499 ;
B9E4 82 84 C0 500 DATA2    hex 8284C0
B9E7          501 ;
B9E7 00 08 07 502          hex 0008070906
B9EA 09 06
B9EC 0A 05 0B 503          hex 0A050B040C
B9EF 04 0C
B9F1 03 0D 02 504          hex 030D020E01
B9F4 0E 01
B9F6          505 ;
B9F6 0F 88 90 506 DATA3    hex 0F8890
B9F9 90 03 00 507          hex 900300
B9FC          508 ;
B9FC 00 00 00 509          hex 00000000
B9FF 00
BA00          510 ;
BA00          511 ;

BSAVE INFLATE,A$0900,B,L$0200

BA00          512      usr INFLATE
BA00          513 ;
BA00          514 ;
BA00          515      stt "INFLATE Symbol Table"
BA00          516 ;
BA00          517 ;
BA00          518      end 111
```

*** End of Assembly

Symbol List starts at 0x7800, ends at 0x795E, used 0x015E, remaining 0x3DCE

Symbols unsorted:

LOC10	0010	LOC12	0012	LOC14	0014	LOC15	0015	LOC16	0016
LOC18	0018	LOC19	0019	ZERO	0000	NEGONE	00FF	DATALOAD	B000
DISKCOPY	B200	INFLATE	B800	BUFFER1	BA00	BUFFER2	BB00	BUFFER3	BC00
BRNCH1	B81F	BRNCH2	B82B	BRNCH3	B899	SUB01	B8F5	SUB02	B924
SUB03	B973	SUB04	B975	SUB05	B999	SUB06	B9A3	SUB07	B9AC
SUB08	B9B0	SUB09	B9B2	SUB10	B9B9	SUB11	B9CC	SUB12	B9D2
DATA1	B9DD	DATA2	B9E4	DATA3	B9F6				

Symbols alphabetically sorted:

BRNCH1	B81F	BRNCH2	B82B	BRNCH3	B899	BUFFER1	BA00	BUFFER2	BB00
BUFFER3	BC00	DATA1	B9DD	DATA2	B9E4	DATA3	B9F6	DATALOAD	B000
DISKCOPY	B200	INFLATE	B800	LOC10	0010	LOC12	0012	LOC14	0014
LOC15	0015	LOC16	0016	LOC18	0018	LOC19	0019	NEGONE	00FF
SUB01	B8F5	SUB02	B924	SUB03	B973	SUB04	B975	SUB05	B999
SUB06	B9A3	SUB07	B9AC	SUB08	B9B0	SUB09	B9B2	SUB10	B9B9
SUB11	B9CC	SUB12	B9D2	ZERO	0000				

Symbols numerically sorted:

ZERO	0000	LOC10	0010	LOC12	0012	LOC14	0014	LOC15	0015
LOC16	0016	LOC18	0018	LOC19	0019	NEGONE	00FF	DATALOAD	B000
DISKCOPY	B200	INFLATE	B800	BRNCH1	B81F	BRNCH2	B82B	BRNCH3	B899
SUB01	B8F5	SUB02	B924	SUB03	B973	SUB04	B975	SUB05	B999
SUB06	B9A3	SUB07	B9AC	SUB08	B9B0	SUB09	B9B2	SUB10	B9B9
SUB11	B9CC	SUB12	B9D2	DATA1	B9DD	DATA2	B9E4	DATA3	B9F6
BUFFER1	BA00	BUFFER2	BB00	BUFFER3	BC00				