

UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222

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0001 0 %title 'DCLDIET - Put a DCL Procedure on a Diet'
0002 0      MODULE dcldiet (main=dcldiet$main, ident = 'V04-000') =
0003 1 BEGIN
0004 1
0005 1 *****
0006 1 *
0007 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0023 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0024 1 *
0025 1 *
0026 1 *****
0027 1
0028 1 ++
0029 1 Facility:      DCLDIET, Put a DCL Procedure on a Diet
0030 1
0031 1 Abstract:      The purpose of this program is to reduce the size of a DCL
0032 1                command procedure. This is done principally by removing
0033 1                all comments. We also eliminate lines that only contain a
0034 1                dollar sign, and reduce all whitespace to a single blank.
0035 1
0036 1                By shipping command procedures in this reduced format, we
0037 1                save space and speed them up.
0038 1
0039 1 Restrictions:  The following restrictions must be obeyed in order that this
0040 1                program produce a correct command procedure.
0041 1
0042 1                1. Quoted strings must have closing quotation marks.
0043 1
0044 1                2. Continuation hypens and comment exclamation points may
0045 1                not be lexically substituted into or out of a line.
0046 1
0047 1                3. The DECK and EOD commands may not be abbreviated.
0048 1
0049 1 Environment:  Native, User mode.
0050 1
0051 1 Author: Paul C. Anagnostopoulos, Creation Date: 7 September 1982
0052 1
0053 1 Revision History:
0054 1
0055 1                V03-001 DAS0001      David Solomon      30-Apr-1984
0056 1                Fix two accvios resulting from reading zero-length records.
0057 1 --

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```
62 0061 1 %sbttl 'Module Definitions'
63 0062 1
64 0063 1 ! Macro Definitions:
65 0064 1
66 0065 1 ! The following definitions are used to create extensions to the Bliss
67 0066 1 ! language. This makes writing programs easier, and hopefully also
68 0067 1 ! facilitates reading them.
69 0068 1
70 0069 1 ! We begin with the definition of a boolean data type.
71 0070 1
72 M 0071 1 macro boolean =
73 M 0072 1     byte
74 M 0073 1 %;
75 M 0074 1
76 M 0075 1 literal
77 M 0076 1     false = 0,
78 M 0077 1     true  = 1;
79 M 0078 1
80 M 0079 1 ! Let's define symbolic names for various control characters that we use
81 M 0080 1 ! a lot.
82 M 0081 1
83 M 0082 1 literal
84 M 0083 1     HT      = %x'09';
85 M 0084 1
86 M 0085 1 ! Now let's define a descriptor data type. This allows us to declare
87 M 0086 1 ! variables, particularly parameters, as descriptors.
88 M 0087 1
89 M 0088 1 field descriptor_fields = set
90 M 0089 1     len      = [dsc$w_length],
91 M 0090 1     typ      = [dsc$b_dtype],
92 M 0091 1     cls      = [dsc$b_class],
93 M 0092 1     ptr      = [dsc$a_pointer]
94 M 0093 1
95 M 0094 1
96 M 0095 1 macro descriptor =
97 M 0096 1     block[8,byte] field(descriptor_fields)
98 M 0097 1 %;
99 M 0098 1
100 M 0099 1 ! Now we need some macros to better deal with strings. We will begin with
101 M 0100 1 ! three that can be used to generate string constants.
102 M 0101 1
103 M 0102 1 macro text(string) =
104 M 0103 1     uplit byte(string)
105 M 0104 1 %;
106 M 0105 1     ctext(string) =
107 M 0106 1     uplit byte(%ascic string)
108 M 0107 1 %;
109 M 0108 1     dtext(string) =
110 M 0109 1     %ascid string
111 M 0110 1 %;
112 M 0111 1
113 M 0112 1 ! Now we will define a macro that generates a buffer with accompanying
114 M 0113 1 ! descriptor. The user can specify the name and length of the buffer.
115 M 0114 1 ! This macro can appear in global or own declarations.
116 M 0115 1
117 M 0116 1 macro dbuffer(name,length) =
118 M 0117 1     name: block[8+length,byte] field(descriptor_fields) preset(
```

```
119      [len] = length,  
120      [typ] = 0,  
121      [cls] = 0,  
122      [ptr] = name + 8  
123      )  
124      %;  
125  
126      ! We also want a macro which helps us fill in a descriptor dynamically.  
127      ! It lets us specify the descriptor, and the length and address to fill in.  
128  
129      M 0128 1 macro build_descriptor(name,length,address) =  
130          (name[len] = length;  
131           name[typ] = 0;  
132           name[cls] = 0;  
133           name[ptr] = address;)  
134      %;  
135  
136      ! Now we are going to define some constructs that let us do common sorts  
137      ! of operations more elegantly. They make things more meaningful and  
138      ! are also faster to write.  
139  
140      ! Begin with two macros to increment and decrement a variable.  
141  
142      M 0141 1 macro increment(variable) =  
143          (variable = .variable + 1)  
144      %,  
145      M 0144 1 decrement(variable) =  
146          (variable = .variable - 1)  
147      %;  
148  
149      ! Define a macro that can check a status. If not successful, then it will  
150      ! signal the remaining arguments.  
151  
152      M 0151 1 macro check(status) =  
153          (if not status then  
154           signal(%remaining);)  
155      %;
```

```
157 0155 1 ! Table of Contents:
158 0156 1
159 0157 1 forward routine
160 0158 1     dcldiet$main: novalue,
161 0159 1     dcldiet$reduce: novalue,
162 0160 1     dcldiet$scrunch_line: novalue,
163 0161 1     dcldiet$skip_whitespace: novalue;
164 0162 1
165 0163 1 ! External References:
166 0164 1
167 0165 1 external routine
168 0166 1     cli$get_value: addressing_mode(general);
169 0167 1
170 0168 1 ! Shared Messages:
171 0169 1
172 P 0170 1 $shr_msgdef(dcldiet, 3, local,
173 P 0171 1     (closein, warning),
174 P 0172 1     (closeout, warning),
175 P 0173 1     (openin, severe),
176 P 0174 1     (openout, severe),
177 P 0175 1     (readerr, error),
178 0176 1     (writeerr, error));
179 0177 1
180 0178 1 ! Own Variables:
181 0179 1
182 0180 1 ! We need a set of RMS control blocks to open and read the input file.
183 0181 1
184 0182 1 own
185 0183 1     dbuffer(input_esa,nam$c_maxrss),
186 0184 1     dbuffer(input_rsa,nam$c_maxrss),
187 0185 1
188 P 0186 1     input_nam: $nam(esa=input_esa+8,
189 P 0187 1         ess=nam$c_maxrss,
190 P 0188 1         rsa=input_rsa+8,
191 0189 1         rss=nam$c_maxrss),
192 0190 1
193 P 0191 1     input_fab: $fab(dnm='.com',
194 P 0192 1         fac=get,
195 P 0193 1         nam=input_nam,
196 0194 1         shr=get),
197 0195 1
198 0196 1     input_ubf: block[1024,byte],
199 0197 1
200 P 0198 1     input_rab: $rab(fab=input_fab,
201 P 0199 1         mbc=4,
202 P 0200 1         mbf=2,
203 P 0201 1         rac=seq,
204 P 0202 1         ubf=input_ubf,
205 0203 1         usz=1024);
206 0204 1
207 0205 1 ! We need a set of RMS control blocks to create the output file.
208 0206 1
209 0207 1 own
210 0208 1     dbuffer(output_esa,nam$c_maxrss),
211 0209 1
212 P 0210 1     output_nam: $nam(rlf=input_nam,
213 P 0211 1         esa=output_esa+8,
```

```
.. 214          0212 1          ess=nam&c_maxrss),  
.. 215          0213 1  
.. 216          P 0214 1      output_fab: $fab(fac=put,  
.. 217          P 0215 1          fop=ofp,  
.. 218          P 0216 1          mrs=1024,  
.. 219          P 0217 1          nam=output_nam,  
.. 220          P 0218 1          org=seq,  
.. 221          P 0219 1          rat=cr,  
.. 222          0220 1          rfm=var),  
.. 223          0221 1  
.. 224          0222 1      output_uf: block[1024,byte],  
.. 225          0223 1  
.. 226          P 0224 1      output_rab: $rab(fab=output_fab,  
.. 227          P 0225 1          mbc=4,  
.. 228          P 0226 1          mbf=2,  
.. 229          0227 1          rac=seq);
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231 0228 1 %sbttl 'DCLDIET$MAIN - Main Routine'
232 0229 1 ++
233 0230 1 Functional Description:
234 0231 1 This is the main routine for the DCLDIET command. It parses the
235 0232 1 command line and then opens up the input file.
236 0233 1
237 0234 1 Formal Parameters:
238 0235 1 none
239 0236 1
240 0237 1 Returned Value:
241 0238 1 none
242 0239 1
243 0240 1 Notes:
244 0241 1 none
245 0242 1 --
246 0243 1
247 0244 1
248 0245 2 GLOBAL ROUTINE dclldiet$main: novalue = BEGIN
249 0246 2
250 0247 2 local
251 0248 2 status: long,
252 0249 2 work_dsc: descriptor;
253 0250 2
254 0251 2
255 0252 2 ! Begin by obtaining the name of the input file and opening it.
256 0253 2
257 0254 2 status = cli$get_value(dtext('P1'),input_esa);
258 0255 2 input_fab[fab$l_fna] = .input_esa[ptr];
259 0256 2 input_fab[fab$b_fns] = .input_esa[len];
260 0257 2 status = $open(fab=input_fab);
261 0258 2 dclldiet$scrunch_line(input_esa);
262 0259 2 check(.status, dclldiet$_openin,1,input_esa,.status,.input_fab[fab$l_stv]);
263 0260 2 status = $connect(rab=input_rab);
264 0261 2 check(.status, dclldiet$_openin,1,input_esa,.status,.input_rab[rab$l_stv]);
265 0262 2
266 0263 2 ! Now we can open the output file. The optional /OUTPUT qualifier will
267 0264 2 ! tell us the name of the output file.
268 0265 2
269 0266 2 status = cli$get_value(dtext('OUTPUT'),output_esa);
270 0267 2 output_fab[fab$l_fna] = .output_esa[ptr];
271 0268 2 output_fab[fab$b_fns] = .output_esa[len];
272 0269 2 status = $create(fab=output_fab);
273 0270 2 dclldiet$scrunch_line(output_esa);
274 0271 2 check(.status, dclldiet$_openout,1,output_esa,.status,.output_fab[fab$l_stv]);
275 0272 2 status = $connect(rab=output_rab);
276 0273 2 check(.status, dclldiet$_openout,1,output_esa,.status,.output_rab[rab$l_stv]);
277 0274 2
278 0275 2 ! Call a routine to process the input command procedure and produce the output.
279 0276 2
280 0277 2 dclldiet$reduce();
281 0278 2
282 0279 2 ! Close the input and output files.
283 0280 2
284 0281 2 status = $close(fab=input_fab);
285 0282 2 check(.status, dclldiet$_closein,1,input_esa,.status,.input_fab[fab$l_stv]);
286 0283 2 status = $close(fab=output_fab);
287 0284 2 check(.status, dclldiet$_closeout,1,output_esa,.status,.output_fab[fab$l_stv]);

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: 288
: 289
: 290

0285 2
0286 2 return;
0287 1 END;

```

.TITLE DCLDIET DCLDIET - Put a DCL Procedure on a Diet
.IDENT \V04-000\

.PSECT $PLITS$,NOWRT,NOEXE,2

        6D 6F 63 2E 00000 P.AAA: .ASCII \.com\
00 00 31 50 00004 P.AAC: .ASCII \P1\<0><0>
        010E0002 00008 P.AAB: .LONG 17694722
        00000000' 0000C .ADDRESS P.AAC
00 00 54 55 50 54 55 4F 00010 P.AAE: .ASCII \OUTPUT\<0><0>
        010E0006 00018 P.AAD: .LONG 17694726
        00000000' 0001C .ADDRESS P.AAE

.PSECT $OWNS$,NOEXE,2

        00FF 00000 INPUT_ESA:
        00 00 00002 .WORD 255
        00000000' 00004 .BYTE 0, 0
        00008 .ADDRESS INPUT_ESA+8
        00107 .BLKB 255
        00FF 00108 INPUT_RSA:
        00 00 0010A .WORD 255
        00000000' 0010C .BYTE 0, 0
        00110 .ADDRESS INPUT_RSA+8
        0020F .BLKB 255
        02 00210 INPUT_NAM:
        60 00211 .BLKB 1
        FF 00212 .BYTE 2
        00 00213 .BYTE 96
        00000000' 00214 .BYTE -1
        00 00218 .BYTE 0
        00 00219 .ADDRESS INPUT_RSA+8
        FF 0021A .BYTE 0
        00 0021B .BYTE 0
        00000000' 0021C .BYTE -1
        00000000' 0021C .ADDRESS INPUT_ESA+8
        00000000 00220 .LONG 0
        0000# 00224 .WORD 0[8]
        0000# 00234 .WORD 0[3]
        0000# 0023A .WORD 0[3]
        00000000 00240 .LONG 0
        00000000 00244 .LONG 0
        00 00248 .BYTE 0
        00 00249 .BYTE 0
        00 0024A .BYTE 0
        00 0024B .BYTE 0
        00 0024C .BYTE 0
        00 0024D .BYTE 0
        00# 0024E .BYTE 0[2]
        00000000 00250 .LONG 0

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00000000 00254 .LONG 0
00000000 00258 .LONG 0
00000000 0025C .LONG 0
00000000 00260 .LONG 0
00000000 00264 .LONG 0
00000000# 00268 .LONG 0[2]
03 00270 INPUT_FAB:
      50 00271 .BYTE 3
0000 00272 .BYTE 80
00000000 00274 .WORD 0
00000000 00278 .LONG 0
00000000 0027C .LONG 0
00000000 00280 .LONG 0
0000 00284 .WORD 0
02 00286 .BYTE 2
02 00287 .BYTE 2
00000000 00288 .LONG 0
00 0028C .BYTE 0
00 0028D .BYTE 0
00 0028E .BYTE 0
02 0028F .BYTE 2
00000000 00290 .LONG 0
00000000 00294 .LONG 0
00000000 00298 .ADDRESS INPUT_NAM
00000000 0029C .LONG 0
00000000 002A0 .ADDRESS P.AAA
00 002A4 .BYTE 0
04 002A5 .BYTE 4
0000 002A6 .WORD 0
00000000 002AB .LONG 0
0000 002AC .WORD 0
00 002AE .BYTE 0
00 002AF .BYTE 0
00000000 002B0 .LONG 0
00000000 002B4 .LONG 0
0000 002B8 .WORD 0
00 002BA .BYTE 0
00 002BB .BYTE 0
00000000 002BC .LONG 0
002C0 INPUT_UBF:
      01 006C0 INPUT_RAB:
      44 006C1 .BLKB 1024
0000 006C2 .BYTE 1
00000000 006C4 .BYTE 68
00000000 006C8 .WORD 0
00000000 006CC .LONG 0
0000# 006D0 .LONG 0
0000 006D6 .WORD 0[3]
00000000 006D8 .WORD 0
0000 006DC .LONG 0
00 006DE .WORD 0
00 006DF .WORD 0
0400 006E0 .BYTE 0
0000 006E2 .WORD 1024
      0000 .WORD 0
```

.....

```
00000000' 006E4      .ADDRESS INPUT_UBF
00000000 006E8      .LONG 0
00000000 006EC      .LONG 0
00000000 006F0      .LONG 0
    00 006F4      .BYTE 0
    00 006F5      .BYTE 0
    02 006F6      .BYTE 2
    04 006F7      .BYTE 4
00000000 006F8      .LONG 0
00000000' 006FC      .ADDRESS INPUT_FAB
00000000 00700      .LONG 0
    00FF 00704 OUTPUT_ESA:
    00 00 00706      .WORD 255
    00000000' 00708      .BYTE 0, 0
    0070C      .ADDRESS OUTPUT_ESA+8
    0080B      .BLKB 255
    02 0080C OUTPUT_NAM:
    0080D      .BLKB 1
    60 0080D      .BYTE 2
    00 0080E      .BYTE 96
    00 0080F      .BYTE 0
00000000 00810      .LONG 0
    00 00814      .BYTE 0
    00 00815      .BYTE 0
    FF 00816      .BYTE -1
    00 00817      .BYTE 0
00000000' 00818      .ADDRESS OUTPUT_ESA+8
00000000' 0081C      .ADDRESS INPUT_NAM
    0000# 00820      .WORD 0[8]
    0000# 00830      .WORD 0[3]
    0000# 00836      .WORD 0[3]
00000000 0083C      .LONG 0
00000000 00840      .LONG 0
    00 00844      .BYTE 0
    00 00845      .BYTE 0
    00 00846      .BYTE 0
    00 00847      .BYTE 0
    00 00848      .BYTE 0
    00 00849      .BYTE 0
    00# 0084A      .BYTE 0[2]
00000000 0084C      .LONG 0
00000000 00850      .LONG 0
00000000 00854      .LONG 0
00000000 00858      .LONG 0
00000000 0085C      .LONG 0
00000000 00860      .LONG 0
00000000# 00864      .LONG 0[2]
    03 0086C OUTPUT_FAB:
    0086D      .BYTE 3
    50 0086D      .BYTE 80
    0000 0086E      .WORD 0
20000000 00870      .LONG 536870912
00000000 00874      .LONG 0
00000000 00878      .LONG 0
00000000 0087C      .LONG 0
    0000 00880      .WORD 0
```

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01 00882 .BYTE 1
00 00883 .BYTE 0
00000000 00884 .LONG 0
00 00888 .BYTE 0
00 00889 .BYTE 0
02 0088A .BYTE 2
02 0088B .BYTE 2
00000000 0088C .LONG 0
00000000 00890 .LONG 0
00000000 00894 .ADDRESS OUTPUT_NAM
00000000 00898 .LONG 0
00000000 0089C .LONG 0
00 008A0 .BYTE 0
00 008A1 .BYTE 0
0400 008A2 .WORD 1024
00000000 008A4 .LONG 0
0000 008A8 .WORD 0
00 008AA .BYTE 0
00 008AB .BYTE 0
00000000 008AC .LONG 0
00000000 008B0 .LONG 0
0000 008B4 .WORD 0
00 008B6 .BYTE 0
00 008B7 .BYTE 0
00000000 008B8 .LONG 0
008BC OUTPUT_UBF:
01 00CBC OUTPUT_RAB:
. BLKB 1024
. BYTE 1
44 00CBD .BYTE 68
0000 00CBE .WORD 0
00000000 00CC0 .LONG 0
00000000 00CC4 .LONG 0
00000000 00CC8 .LONG 0
0000# 00CCC .WORD 0[3]
0000 00CD2 .WORD 0
00000000 00CD4 .LONG 0
0000 00CD8 .WORD 0
00 00CDA .BYTE 0
00 00CDB .BYTE 0
0000 00CDC .WORD 0
0000 00CDE .WORD 0
00000000 00CE0 .LONG 0
00000000 00CE4 .LONG 0
00000000 00CE8 .LONG 0
00000000 00CEC .LONG 0
00 00CF0 .BYTE 0
00 00CF1 .BYTE 0
02 00CF2 .BYTE 2
04 00CF3 .BYTE 4
00000000 00CF4 .LONG 0
00000000 00CF8 .ADDRESS OUTPUT_FAB
00000000 00CFC .LONG 0

.EXTRN CLISGET VALUE, SYSSOPEN
.EXTRN SYSSCONNECT, SYSSCREATE
.EXTRN SYSSCLOSE

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				.PSECT	\$CODE\$,NOWRT,2	
			00FC 00000	.ENTRY	DCLDIET\$MAIN, Save R2,R3,R4,R5,R6,R7	0245
57	00000000G	00	9E 00002	MOVAB	SYSSCLOSE, R7	
56	00000000G	00	9E 00009	MOVAB	SYSSCONNECT, R6	
55	00000000G	00	9E 00010	MOVAB	CLISGET VALUE, R5	
54	00000000G	00	9E 00017	MOVAB	LIBSSIGNAL, R4	
53	0000'	CF	9E 0001E	MOVAB	INPUT_ESA, R3	
5E		08	C2 00023	SUBL2	#8, SP	
		53	DD 00026	PUSHL	R3	0254
	0000'	CF	9F 00028	PUSHAB	P.AAB	
65		02	FB 0002C	CALLS	#2, CLISGET_VALUE	
52		50	DO 0002F	MOVL	R0, STATUS	
029C	C3 04	A3	DO 00032	MOVL	INPUT_ESA+4, INPUT_FAB+44	0255
02A4	C3	63	90 00038	MOVB	INPUT_ESA, INPUT_FAB+52	0256
	0270	C3	9F 0003D	PUSHAB	INPUT_FAB	0257
00000000G	00	01	FB 00041	CALLS	#1, SYSSOPEN	
	52	50	DO 00048	MOVL	R0, STATUS	
		53	DD 0004B	PUSHL	R3	0258
0000V	CF	01	FB 0004D	CALLS	#1, DCLDIET\$SCRUNCH_LINE	
	13	52	E8 00052	BLBS	STATUS, 1\$	0259
	027C	C3	DD 00055	PUSHL	INPUT_FAB+12	
		52	DD 00059	PUSHL	STATUS	
		53	DD 0005B	PUSHL	R3	
		01	DD 0005D	PUSHL	#1	
	0003109C	8F	DD 0005F	PUSHL	#200860	
64		05	FB 00065	CALLS	#5, LIBSSIGNAL	
	06C0	C3	9F 00068	PUSHAB	INPUT_RAB	0260
66		01	FB 0006C	CALLS	#1, SYSSCONNECT	
52		50	DO 0006F	MOVL	R0, STATUS	
13		52	E8 00072	BLBS	STATUS, 2\$	0261
	06CC	C3	DD 00075	PUSHL	INPUT_RAB+12	
		52	DD 00079	PUSHL	STATUS	
		53	DD 0007B	PUSHL	R3	
		01	DD 0007D	PUSHL	#1	
	0003109C	8F	DD 0007F	PUSHL	#200860	
64		05	FB 00085	CALLS	#5, LIBSSIGNAL	
	0704	C3	9F 00088	PUSHAB	OUTPUT_ESA	0266
	0000'	CF	9F 0008C	PUSHAB	P.AAD	
65		02	FB 00090	CALLS	#2, CLISGET_VALUE	
52		50	DO 00093	MOVL	R0, STATUS	
0898	C3 0708	C3	DO 00096	MOVL	OUTPUT_ESA+4, OUTPUT_FAB+44	0267
08A0	C3 0704	C3	90 0009D	MOVB	OUTPUT_ESA, OUTPUT_FAB+52	0268
	086C	C3	9F 000A4	PUSHAB	OUTPUT_FAB	0269
00000000G	00	01	FB 000A8	CALLS	#1, SYSSCREATE	
	52	50	DO 000AF	MOVL	R0, STATUS	
	0704	C3	9F 000B2	PUSHAB	OUTPUT_ESA	0270
0000V	CF	01	FB 000B6	CALLS	#1, DCLDIET\$SCRUNCH_LINE	
	15	52	E8 000BB	BLBS	STATUS, 3\$	0271
	0878	C3	DD 000BE	PUSHL	OUTPUT_FAB+12	
		52	DD 000C2	PUSHL	STATUS	
	0704	C3	9F 000C4	PUSHAB	OUTPUT_ESA	
		01	DD 000C8	PUSHL	#1	
	000310A4	8F	DD 000CA	PUSHL	#200868	
64		05	FB 000D0	CALLS	#5, LIBSSIGNAL	
	0C8C	C3	9F 000D3	PUSHAB	OUTPUT_RAB	0272

	66		01	FB	000D7		CALLS	#1, SYSSCONNECT		
	52		50	DO	000DA		MOVL	R0, STATUS		
	15		52	E8	000DD		BLBS	STATUS, 4\$	0273	
		0CC8	C3	DD	000E0		PUSHL	OUTPUT_RAB+12		
		0704	52	DD	000E4		PUSHL	STATUS		
			C3	9F	000E6		PUSHAB	OUTPUT_ESA		
		000310A4	01	DD	000EA		PUSHL	#1		
			8F	DD	000EC		PUSHL	#200868		
0000V	64		05	FB	000F2		CALLS	#5, LIBSSIGNAL		
	CF		00	FB	000F5	4\$:	CALLS	#0, DCLDIET\$REDUCE	0277	
		0270	C3	9F	000FA		PUSHAB	INPUT_FAB	0281	
	67		01	FB	000FE		CALLS	#1, SYSSCLOSE		
	52		50	DO	00101		MOVL	R0, STATUS		
	13		52	E8	00104		BLBS	STATUS, 5\$	0282	
		027C	C3	DD	00107		PUSHL	INPUT_FAB+12		
			52	DD	0010B		PUSHL	STATUS		
			53	DD	0010D		PUSHL	R3		
		00031050	01	DD	0010F		PUSHL	#1		
	64		8F	DD	00111		PUSHL	#200784		
		086C	05	FB	00117		CALLS	#5, LIBSSIGNAL		
	67		C3	9F	0011A	5\$:	PUSHAB	OUTPUT_FAB	0283	
			01	FB	0011E		CALLS	#1, SYSSCLOSE		
	52		50	DO	00121		MOVL	R0, STATUS		
	15		52	E8	00124		BLBS	STATUS, 6\$	0284	
		0878	C3	DD	00127		PUSHL	OUTPUT_FAB+12		
			52	DD	0012B		PUSHL	STATUS		
		0704	C3	9F	0012D		PUSHAB	OUTPUT_ESA		
			01	DD	00131		PUSHL	#1		
		00031058	8F	DD	00133		PUSHL	#200792		
	64		05	FB	00139		CALLS	#5, LIBSSIGNAL		
			04	0013C	6\$:		RET		0287	

; Routine Size: 317 bytes, Routine Base: \$CODE\$ + 0000

```

: 292 0288 1 %sbttl 'DCLDIETS$REDUCE - Reduce a Command Procedure'
: 293 0289 1 ++
: 294 0290 1 Functional Description:
: 295 0291 1 This procedure is responsible for reducing the size of a command
: 296 0292 1 procedure by eliminating comments and compressing any whitespace.
: 297 0293 1 We read the entire input file and generate a new output file.
: 298 0294 1
: 299 0295 1 Formal Parameters:
: 300 0296 1 none
: 301 0297 1
: 302 0298 1 Returned Value:
: 303 0299 1 none
: 304 0300 1
: 305 0301 1 Notes:
: 306 0302 1 none
: 307 0303 1 --
: 308 0304 1
: 309 0305 1
: 310 0306 2 GLOBAL ROUTINE dcldiet$reduce : novalue = BEGIN
: 311 0307 2
: 312 0308 2 local
: 313 0309 2 status: long,
: 314 0310 2 line_dsc: descriptor,
: 315 0311 2 work_dsc: descriptor,
: 316 0312 2 continuation_line: boolean,
: 317 0313 2 within_deck: boolean,
: 318 0314 2 dcl_command: boolean;
: 319 0315 2
: 320 0316 2
: 321 0317 2 ! We will reduce the command procedure by reading each line, processing it,
: 322 0318 2 ! and perhaps writing a new line into the output file.
: 323 0319 2
: 324 0320 2 continuation_line = within_deck = false;
: 325 0321 2
: 326 0322 2 while true do (
: 327 0323 2
: 328 0324 2 ! Begin by getting the next line. We're done on end-of-file.
: 329 0325 2
: 330 0326 2 status = $get(rab=input_rab);
: 331 0327 2 if .status eqlu rms$eof then exitloop;
: 332 0328 2 check(.status, dcldiet$_readerr,1,input_esa,.status,.input_rab[rab$l_stv]);
: 333 0329 2
: 334 0330 2 ! Set up the output RAB for writing the line. Also set up a working
: 335 0331 2 ! descriptor in case the line must be modified.
: 336 0332 2
: 337 0333 2 output_rab[rab$w_rsz] = .input_rab[rab$w_rsz];
: 338 0334 2 output_rab[rab$l_rbf] = .input_rab[rab$l_rbf];
: 339 0335 2 build_descriptor(work_dsc,.input_rab[rab$w_rsz],.input_rab[rab$l_rbf]);
: 340 0336 2
: 341 0337 2 ! Update the work descriptor to skip initial whitespace.
: 342 0338 2
: 343 0339 2 dcldiet$skip_whitespace(work_dsc);
: 344 0340 2
: 345 0341 2 ! Now we have to determine whether this is a DCL command line
: 346 0342 2 ! or a data line.
: 347 0343 2
: 348 0344 2 dcl_command =

```



```

: 349 0345 4      (if not .within_deck and .work_dsc[len] gtru 0
: 350 0346 4      then
: 351 0347 5      (ch$rchar(.work_dsc[ptr]) eqlu '$')
: 352 0348 4      else
: 353 0349 4      false)
: 354 0350 4      or .continuation_line;
: 355 0351 3
: 356 0352 3      ! If it's a DCL command line, we have to scrunch it. Skip to the
: 357 0353 3      ! beginning of the verb, call the scrunching routine, and then put
: 358 0354 3      ! back a dollar sign if necessary.
: 359 0355 3
: 360 0356 4      if .dcl_command then (
: 361 0357 5          if not .continuation_line then (
: 362 0358 5              decrement(work_dsc[len]);
: 363 0359 5              increment(work_dsc[ptr]);
: 364 0360 4          );
: 365 0361 4          dcldiet$skip_whitespace(work_dsc);
: 366 0362 4          dcldiet$scrunch_line(work_dsc);
: 367 0363 5          if not .continuation_line then (
: 368 0364 5              increment(work_dsc[len]);
: 369 0365 5              decrement(work_dsc[ptr]);
: 370 0366 5              ch$wchar('$',.work_dsc[ptr]);
: 371 0367 4          );
: 372 0368 3      );
: 373 0369 3
: 374 0370 3      ! Now we want to write the line into the output file. Don't bother
: 375 0371 3      ! if it's a DCL command line with only a dollar sign.
: 376 0372 3
: 377 0373 3      if .work_dsc[len] gtru 1 or
: 378 0374 3      .continuation_line or
: 379 0375 4      not .dcl_command then (
: 380 0376 5          if .dcl_command then (
: 381 0377 5              output_rab[rab$w_rsz] = .work_dsc[len];
: 382 0378 5              output_rab[rab$l_rbf] = .work_dsc[ptr];
: 383 0379 4          );
: 384 0380 4          status = $put(rab=output_rab);
: 385 0381 4          check(.status, dcldiet$_writeerr,1,output_esa,.status,.output_rab[rab$l_stv]);
: 386 0382 3      );
: 387 0383 3
: 388 0384 3      ! Next we determine the state of our two control flags.
: 389 0385 3      ! The continuation flag is set if we just processed a DCL command
: 390 0386 3      ! line and it has a hyphen at the end.
: 391 0387 3
: 392 0388 3      continuation_line =
: 393 0389 4      (if .dcl_command
: 394 0390 4      then
: 395 0391 5      (ch$rchar(.work_dsc[ptr]+.work_dsc[len]-1) eqlu '-')
: 396 0392 4      else false
: 397 0393 4      );
: 398 0394 3
: 399 0395 3      ! The setting of the deck flag depends upon whether or not we just
: 400 0396 3      ! processed a DCL command. If so, the flag is set if we had a DECK
: 401 0397 3      ! command. If not, the flag is left alone unless we had an EOD command
: 402 0398 3      ! while in a deck, in which case it is reset.
: 403 0399 3
: 404 0400 3      if .dcl_command then
: 405 0401 3          within_deck = .work_dsc[len] eqlu 5 and

```

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: 406 0402 3          ch$rchar(.work_dsc[ptr] )          eqlu '$' and
: 407 0403 3          (ch$rchar(.work_dsc[ptr]+1) and %x'df') eqlu 'D' and
: 408 0404 3          (ch$rchar(.work_dsc[ptr]+2) and %x'df') eqlu 'E' and
: 409 0405 3          (ch$rchar(.work_dsc[ptr]+3) and %x'df') eqlu 'C' and
: 410 0406 3          (ch$rchar(.work_dsc[ptr]+4) and %x'df') eqlu 'K'
: 411 0407 3      else if .within_deck then
: 412 0408 4          if ch$rchar(.work_dsc[ptr]) eqlu '$' then (
: 413 0409 4              decrement(work_dsc[len]);
: 414 0410 4              increment(work_dsc[ptr]);
: 415 0411 4              dcldiet$skip_whitespace(work_dsc);
: 416 0412 4              if .work_dsc[len] eqlu 3 and
: 417 0413 4                  (ch$rchar(.work_dsc[ptr] ) and %x'df') eqlu 'E' and
: 418 0414 4                  (ch$rchar(.work_dsc[ptr]+1) and %x'df') eqlu 'O' and
: 419 0415 4                  (ch$rchar(.work_dsc[ptr]+2) and %x'df') eqlu 'D' then
: 420 0416 4                  within_deck = false;
: 421 0417 4              );
: 422 0418 3          );
: 423 0419 2      );
: 424 0420 2      return;
: 425 0421 2      END;
: 426 0422 1

```

```

                                .EXTRN  SYS$GET, SYS$PUT
                                OFFC 00000
                                .ENTRY  DCLDIET$REDUCE, Save R2,R3,R4,R5,R6,R7,R8,- : 0306
                                R9,R10,R11
                                MOVAB  DCLDIET$SKIP WHITESPACE, R11
                                MOVAB  LIB$SIGNAL, R10
                                MOVAB  INPUT_RAB+34, R9
                                SUBL2  #16, SP
                                CLRB   WITHIN_DECK                                : 0320
                                CLRB   CONTINUATION_LINE
                                PUSHAB INPUT_RAB                                  : 0326
                                CALLS  #1, SYS$GET
                                MOVL   R0, STATUS
                                CML   STATUS, #98938
                                BNEQ   2$
                                RET
                                BLBS   STATUS, 3$
                                PUSHL  INPUT_RAB+12
                                PUSHL  STATUS
                                PUSHAB INPUT_ESA
                                PUSHL  #1
                                PUSHL  #200882
                                CALLS  #5, LIB$SIGNAL
                                MOVW   INPUT_RAB+34, OUTPUT_RAB+34
                                MOVL   INPUT_RAB+40, OUTPUT_RAB+40
                                MOVZWL INPUT_RAB+34, WORK_DSC
                                MOVL   INPUT_RAB+40, WORK_DSC+4
                                PUSHL  SP
                                CALLS  #1, DCLDIET$SKIP_WHITESPACE
                                BLBS   WITHIN_DECK, 4$
                                TSTW   WORK_DSC
                                BEQL   4$
                                CLRL   R0
                                : 0333
                                : 0334
                                : 0335
                                : 0339
                                : 0345
                                : 0347

```

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	24	04	BE 91 00069	CMPB	@WORK_DSC+4, #36		
			06 12 0006D	BNEQ	5\$		
			50 D6 0006F	INCL	R0		
			02 11 00071	BRB	5\$		
			50 D4 00073 4\$:	CLRL	R0		0345
56	50		53 89 00075 5\$:	BISB3	CONTINUATION_LINE, R0, DCL_COMMAND		0350
	20		56 E9 00079	BLBC	DCL_COMMAND, 7\$		0356
	05		53 E8 0007C	BLBS	CONTINUATION_LINE, 6\$		0357
			6E B7 0007F	DECW	WORK_DSC		0358
		04	AE D6 00081	INCL	WORK_DSC+4		0359
			5E DD 00084 6\$:	PUSHL	SP		0361
	6B		01 FB 00086	CALLS	#1, DCLDIETS\$SKIP_WHITESPACE		
			5E DD 00089	PUSHL	SP		0362
0000V	CF		01 FB 0008B	CALLS	#1, DCLDIETS\$SCRUNCH_LINE		
	09		53 E8 00090	BLBS	CONTINUATION_LINE, 7\$		0363
			6E B6 00093	INCW	WORK_DSC		0364
		04	AE D7 00095	DECL	WORK_DSC+4		0365
	04	BE	24 90 00098	MOVB	#36, @WORK_DSC+4		0366
	01		6E B1 0009C 7\$:	CMPW	WORK_DSC, #1		0373
			06 1A 0009F	BGTRU	8\$		
	03		53 E8 000A1	BLBS	CONTINUATION_LINE, 8\$		0374
	36		56 E8 000A4	BLBS	DCL_COMMAND, 11\$		0375
	0B		56 E9 000A7 8\$:	BLBC	DCL_COMMAND, 9\$		0376
05FC	C9		6E B0 000AA	MOVW	WORK_DSC, OUTPUT_RAB+34		0377
0602	C9	04	AE D0 000AF	MOVL	WORK_DSC+4, OUTPUT_RAB+40		0378
		05DA	C9 9F 000B5 9\$:	PUSHAB	OUTPUT_RAB		0380
00000000G	00		01 FB 000B9	CALLS	#1, SYSSPUT		
	55		50 D0 000C0	MOVL	R0, STATUS		
	14		55 E8 000C3	BLBS	STATUS, 10\$		0381
		05E6	C9 DD 000C6	PUSHL	OUTPUT_RAB+12		
			55 DD 000CA	PUSHL	STATUS		
		22	A9 9F 000CC	PUSHAB	OUTPUT_ESA		
			01 DD 000CF	PUSHL	#1		
		000310D2	8F DD 000D1	PUSHL	#200914		
6A			05 FB 000D7	CALLS	#5, LIB\$SIGNAL		
13			56 E9 000DA 10\$:	BLBC	DCL_COMMAND, 12\$		0389
50			6E 3C 000DD 11\$:	MOVZWL	WORK_DSC, R0		0391
50		04	AE C0 000E0	ADDL2	WORK_DSC+4, R0		
			51 D4 000E4	CLRL	R1		
	2D	FF	A0 91 000E6	CMPB	-1(R0), #45		
			06 12 000EA	BNEQ	13\$		
			51 D6 000EC	INCL	R1		
			02 11 000EE	BRB	13\$		
			51 D4 000F0 12\$:	CLRL	R1		0389
53			51 90 000F2 13\$:	MOVB	R1, CONTINUATION_LINE		
03			56 E8 000F5	BLBS	DCL_COMMAND, 14\$		0400
		00A4	31 000F8	BRW	21\$		
			50 D4 000FB 14\$:	CLRL	R0		0401
	05		6E B1 000FD	CMPW	WORK_DSC, #5		
			02 12 00100	BNEQ	15\$		
			50 D6 00102	INCL	R0		
			52 D4 00104 15\$:	CLRL	R2		0402
	24	04	BE 91 00106	CMPB	@WORK_DSC+4, #36		
			02 12 0010A	BNEQ	16\$		
			52 D6 0010C	INCL	R2		
	51		50 D2 0010E 16\$:	MCOML	R0, R1		
	52		51 CA 00111	BICL2	R1, R2		

	50	04	AE	D0	00114	MOVL	WORK_DSC+4, R0	0403
	50	01	A0	9A	00118	MOVZBL	1(R0), R0	
	50	FFFFFF20	8F	CA	0011C	BICL2	#-224, R0	
00000044	8F		51	D4	00123	CLRL	R1	
			50	D1	00125	CMPL	R0, #68	
			02	12	0012C	BNEQ	17\$	
			51	D6	0012E	INCL	R1	
	57		52	D2	00130	MCOML	R2, R7	17\$:
	51		57	CA	00133	BICL2	R7, R1	
	50	04	AE	D0	00136	MOVL	WORK_DSC+4, R0	0404
	50	02	A0	9A	0013A	MOVZBL	2(R0), R0	
	50	FFFFFF20	8F	CA	0013E	BICL2	#-224, R0	
00000045	8F		52	D4	00145	CLRL	R2	
			50	D1	00147	CMPL	R0, #69	
			02	12	0014E	BNEQ	18\$	
			52	D6	00150	INCL	R2	
	58		51	D2	00152	MCOML	R1, R8	18\$:
	52		58	CA	00155	BICL2	R8, R2	
	50	04	AE	D0	00158	MOVL	WORK_DSC+4, R0	0405
	50	03	A0	9A	0015C	MOVZBL	3(R0), R0	
	50	FFFFFF20	8F	CA	00160	BICL2	#-224, R0	
00000043	8F		51	D4	00167	CLRL	R1	
			50	D1	00169	CMPL	R0, #67	
			02	12	00170	BNEQ	19\$	
			51	D6	00172	INCL	R1	
	57		52	D2	00174	MCOML	R2, R7	19\$:
	51		57	CA	00177	BICL2	R7, R1	
	50	04	AE	D0	0017A	MOVL	WORK_DSC+4, R0	0406
	50	04	A0	9A	0017E	MOVZBL	4(R0), R0	
	50	FFFFFF20	8F	CA	00182	BICL2	#-224, R0	
00000048	8F		52	D4	00189	CLRL	R2	
			50	D1	0018B	CMPL	R0, #75	
			02	12	00192	BNEQ	20\$	
			52	D6	00194	INCL	R2	
54	58		51	D2	00196	MCOML	R1, R8	20\$:
	52		58	8B	00199	BICB3	R8, R2, WITHIN_DECK	
			5E	11	0019D	BRB	22\$	0401
	58		54	E9	0019F	BLBC	WITHIN_DECK, 22\$	0407
	24	04	BE	91	001A2	CMPB	@WORK_DSC+4, #36	0408
			55	12	001A6	BNEQ	22\$	
			6E	B7	001A8	DECW	WORK_DSC	0409
		04	AE	D6	001AA	INCL	WORK_DSC+4	0410
			5E	DD	001AD	PUSHL	SP	0411
	68		01	FB	001AF	CALLS	#1, DCLDIET\$SKIP_WHITESPACE	
	03		6E	B1	001B2	CMPW	WORK_DSC, #3	0412
			46	12	001B5	BNEQ	22\$	
	50	04	BE	9A	001B7	MOVZBL	@WORK_DSC+4, R0	0413
00000045	50	FFFFFF20	8F	CA	001BB	BICL2	#-224, R0	
	8F		50	D1	001C2	CMPL	R0, #69	
			32	12	001C9	BNEQ	22\$	
	50	04	AE	D0	001CB	MOVL	WORK_DSC+4, R0	0414
	50	01	A0	9A	001CF	MOVZBL	1(R0), R0	
	50	FFFFFF20	8F	CA	001D3	BICL2	#-224, R0	
0000004F	8F		50	D1	001DA	CMPL	R0, #79	
			1A	12	001E1	BNEQ	22\$	
	50	04	AE	D0	001E3	MOVL	WORK_DSC+4, R0	0415
	50	02	A0	9A	001E7	MOVZBL	2(R0), R0	

DCLDIET
V04-000

DCLDIET - Put a DCL Procedure on a Diet
DCLDIETSREDUCE - Reduce a Command Procedure

1 7
16-Sep-1984 02:18:55
14-Sep-1984 13:25:20

VAX-11 Bliss-32 V4.0-742
[UTIL32.SRC]DCLDIET.B32;1

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(5)

00000044	50	FFFFFF20	8F	CA	001EB	BICL2	#-224, RO
	8F		50	D1	001F2	CMP	RO, #68
			02	12	001F9	BNEQ	22\$
			54	94	001FB	CLRB	WITHIN_DECK
			FE1A	31	001FD	BRW	1\$
			04	00200	RET		

.....
: 0416
: 0322
: 0422

; Routine Size: 513 bytes, Routine Base: \$CODES + 013D

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428 0423 1 %sbttl 'DCLDIET$SCRUNCH_LINE - Remove Comments and Squeeze Whitespace'
429 0424 1  **
430 0425 1  Functional Description:
431 0426 1  This procedure is called to scrunch a line in the command procedure.
432 0427 1  It removes any comments from the line.  It also squeezes any
433 0428 1  whitespace down to a single blank.  Trailing whitespace is eliminated.
434 0429 1
435 0430 1  Formal Parameters:
436 0431 1  line_dsc      Descriptor of line.  Line is scrunched by rearranging
437 0432 1  line buffer and updating descriptor.
438 0433 1
439 0434 1  Returned Value:
440 0435 1  none
441 0436 1
442 0437 1  Notes:
443 0438 1  none
444 0439 1  --
445 0440 1
446 0441 1
447 0442 1 GLOBAL ROUTINE dcldiet$scrunch_line(line_dsc: ref descriptor)
448 0443 2                                     : novalue = BEGIN
449 0444 2
450 0445 2 local
451 0446 2     scan_dsc: descriptor,
452 0447 2     char: byte;
453 0448 2
454 0449 2
455 0450 2 ! If the line is null, forget it.
456 0451 2
457 0452 2 if .line_dsc[len] eglu 0 then
458 0453 2     return;
459 0454 2
460 0455 2 ! Begin by copying the line descriptor so we can scan the line.  Then reset
461 0456 2 ! the length of the descriptor to zero so we can rebuild the line.
462 0457 2
463 0458 2 build_descriptor(scan_dsc,.line_dsc[len],.line_dsc[ptr]);
464 0459 2 line_dsc[len] = 0;
465 0460 2
466 0461 2 ! Now we will sit in a loop in order to find the first quotation mark
467 0462 2 ! or exclamation point in the line.  As we go, we'll compress any whitespace
468 0463 2 ! down to a single blank.
469 0464 2
470 0465 2 while .scan_dsc[len] gtru 0 do (
471 0466 3     char = ch$rchar(.scan_dsc[ptr]);
472 0467 3 if .char eglu '"' or .char eglu '!' then exitloop;
473 0468 3     decrement(scan_dsc[len]);
474 0469 3     increment(scan_dsc[ptr]);
475 0470 4     if .char eglu ' ' or .char eglu HT then (
476 0471 4         ch$uchar(' ',.line_dsc[ptr]+.line_dsc[len]);
477 0472 4         dcldiet$skip_whitespace(scan_dsc);
478 0473 4     ) else
479 0474 3         ch$uchar(.char,.line_dsc[ptr]+.line_dsc[len]);
480 0475 3         increment(line_dsc[len]);
481 0476 2 );
482 0477 2
483 0478 2 ! If we found a quotation mark, we have some more work to do.
484 0479 2

```

```

485 0480 3 if .char eqlu ''' then (
486 0481 3
487 0482 3     ! We have to be careful with the rest of the line, because the
488 0483 3     ! quotation rules in DCL are haphazard. Begin by moving down
489 0484 3     ! the rest of the line so it's adjacent to the part we compressed.
490 0485 3
491 0486 3     ch$move(.scan_dsc[.len],.scan_dsc[ptr],.line_dsc[ptr]+.line_dsc[.len]);
492 0487 3     line_dsc[.len]=.line_dsc[.len]+.scan_dsc[.len];
493 0488 3
494 0489 3     ! If there is an exclamation point at the end of the line, not
495 0490 3     ! followed by a quotation mark, then it's a comment.
496 0491 3
497 0492 3     scan_dsc[ptr]=.line_dsc[ptr]+.line_dsc[.len]-1;
498 0493 3     while .scan_dsc[ptr] geqa .line_dsc[ptr] and
499 0494 3     ch$rchar(.scan_dsc[ptr]) nequ ''' do (
500 0495 3         if ch$rchar(.scan_dsc[ptr]) eqlu '!' then (
501 0496 3             line_dsc[.len]=.scan_dsc[ptr]-.line_dsc[ptr];
502 0497 3             exitloop;
503 0498 3         );
504 0499 3         decrement(scan_dsc[ptr]);
505 0500 3     );
506 0501 3 );
507 0502 3
508 0503 3 ! If, after all that work, we ended up with trailing whitespace, then
509 0504 3 ! get rid of it.
510 0505 3
511 0506 3 scan_dsc[ptr]=.line_dsc[ptr]+.line_dsc[.len]-1;
512 0507 3 while .scan_dsc[ptr] geqa .line_dsc[ptr] and
513 0508 3 (ch$rchar(.scan_dsc[ptr]) eqlu ' ' or ch$rchar(.scan_dsc[ptr]) eqlu HT) do (
514 0509 3     decrement(line_dsc[.len]);
515 0510 3     decrement(scan_dsc[ptr]);
516 0511 3 );
517 0512 3
518 0513 2 return;
519 0514 1 END;

```

			00FC 00000	.ENTRY	DCLDIET\$SCRUNCH_LINE, Save R2,R3,R4,R5,R6,-	0442
	5E		08 C2 00002	SUBL2	R7	
	56	04	AC D0 00005	MOVL	#8, SP	
			66 B5 00009	MOVL	LINE_DSC, R6	0452
			01 12 0000B	TSTW	(R6)	
			04 0000D	BNEQ	1\$	
	6E		66 3C 0000E 1\$:	RET		
	57	04	A6 9E 00011	MOVZWL	(R6), SCAN_DSC	0458
04	AE		67 D0 00015	MOVAB	4(R6), R7	
			66 B4 00019	MOVL	(R7), SCAN_DSC+4	
			6E B5 0001B 2\$:	CLRW	(R6)	0459
			3C 13 0001D	TSTW	SCAN_DSC	0465
	52	04	BE 90 0001F	BEQL	6\$	
	22		52 91 00023	MOVB	@SCAN_DSC+4, CHAR	0466
			33 13 00026	CMPB	CHAR, #34	0467
	21		52 91 00028	BEQL	6\$	
				CMPB	CHAR, #33	

		2E	13	0002B	BEQL	6\$		
		6E	B7	0002D	DECW	SCAN_DSC		0468
		AE	D6	0002F	INCL	SCAN_DSC+4		0469
	20	52	91	00032	CMPB	CHAR, #32		0470
		05	13	00035	BEQL	3\$		
	09	52	91	00037	CMPB	CHAR, #9		
		12	12	0003A	BNEQ	4\$		
	50	66	3C	0003C	MOVZWL	(R6), R0		0471
	50	67	C0	0003F	ADDL2	(R7), R0		
	60	20	90	00042	MOVB	#32, (R0)		
		5E	DD	00045	PUSHL	SP		0472
	0000V	CF	01	FB	CALLS	#1, DCLDIET\$SKIP_WHITESPACE		
		09	11	0004C	BRB	5\$		0474
	50	66	3C	0004E	MOVZWL	(R6), R0		
	50	67	C0	00051	ADDL2	(R7), R0		
	60	52	90	00054	MOVB	CHAR, (R0)		
		66	B6	00057	INCW	(R6)		0475
		C0	11	00059	BRB	2\$		0465
	22	52	91	0005B	CMPB	CHAR, #34		0480
		37	12	0005E	BNEQ	9\$		
	50	66	3C	00060	MOVZWL	(R6), R0		0486
	50	67	C0	00063	ADDL2	(R7), R0		
60	04	BE	6E	28	MOVCS	SCAN_DSC, @SCAN_DSC+4, (R0)		
		66	AE	A0	ADDW2	SCAN_DSC, (R6)		0487
	50	66	3C	0006E	MOVZWL	(R6), R0		0492
	50	67	C0	00071	ADDL2	(R7), R0		
	04	AE	FF	A0	MOVAB	-1(R0), SCAN_DSC+4		
		67	04	AE	CMPL	SCAN_DSC+4, (R7)		0493
		18	1F	0007D	BLSSU	9\$		
	22	04	BE	91	CMPB	@SCAN_DSC+4, #34		0494
		12	13	00083	BEQL	9\$		
	21	04	BE	91	CMPB	@SCAN_DSC+4, #33		0495
		07	12	00089	BNEQ	8\$		
66	04	AE	67	A3	SUBW3	(R7), SCAN_DSC+4, (R6)		0496
		05	11	00090	BRB	9\$		0495
		04	AE	D7	DECL	SCAN_DSC+4		0499
		E2	11	00095	BRB	7\$		0493
	50	66	3C	00097	MOVZWL	(R6), R0		0506
	50	67	C0	0009A	ADDL2	(R7), R0		
	04	AE	FF	A0	MOVAB	-1(R0), SCAN_DSC+4		
		67	04	AE	CMPL	SCAN_DSC+4, (R7)		0507
		13	1F	000A6	BLSSU	12\$		
	20	04	BE	91	CMPB	@SCAN_DSC+4, #32		0508
		06	13	000AC	BEQL	11\$		
	09	04	BE	91	CMPB	@SCAN_DSC+4, #9		
		07	12	000B2	BNEQ	12\$		
		66	B7	000B4	DECW	(R6)		0509
		04	AE	D7	DECL	SCAN_DSC+4		0510
		E7	11	000B9	BRB	10\$		0507
		04	000BB	12\$:	RET			0514

; Routine Size: 188 bytes, Routine Base: \$CODE\$ + 033E


```

: 521 0515 1 %sbttl 'DCLDIET$SKIP_WHITESPACE - Skip Whitespace in a Line'
: 522 0516 1  +-
: 523 0517 1  Functional Description:
: 524 0518 1  This procedure is called to skip past the whitespace in a line.
: 525 0519 1  Whitespace is any sequence of blanks or tabs.
: 526 0520 1
: 527 0521 1  Formal Parameters:
: 528 0522 1  line_dsc      Descriptor of line. Initial whitespace is skipped
: 529 0523 1  by updating descriptor.
: 530 0524 1
: 531 0525 1  Returned Value:
: 532 0526 1  none
: 533 0527 1
: 534 0528 1  Notes:
: 535 0529 1  none
: 536 0530 1  --
: 537 0531 1
: 538 0532 1
: 539 0533 1 GLOBAL ROUTINE dclDIET$skip_whitespace(line_dsc: ref descriptor)
: 540 0534 2          : novalue = BEGIN
: 541 0535 2
: 542 0536 2
: 543 0537 2 while .line_dsc[len] gtru 0 and
: 544 0538 3   (ch$rchar(.line_dsc[ptr]) eglu ' ' or ch$rchar(.line_dsc[ptr]) eglu HT) do (
: 545 0539 3   decrement(line_dsc[len]);
: 546 0540 3   increment(line_dsc[ptr]);
: 547 0541 2 );
: 548 0542 2
: 549 0543 2 return;
: 550 0544 1 END;

```

			0000 0000	.ENTRY	DCLDIET\$SKIP_WHITESPACE, Save nothing	: 0533
50	04	AC	D0 00002	MOVL	LINE_DSC, R0	: 0537
		60	B5 00006 1\$:	TSTW	(R0)	
		13	13 00008	BEQL	3\$	
20	04	B0	91 0000A	CMPB	@4(R0), #32	: 0538
		06	13 0000E	BEQL	2\$	
09	04	B0	91 00010	CMPB	@4(R0), #9	
		07	12 00014	BNEQ	3\$	
		60	B7 00016 2\$:	DECW	(R0)	: 0539
	04	A0	D6 00018	INCL	4(R0)	: 0540
		E9	11 0001B	BRB	1\$: 0537
		04	0001D 3\$:	RET		: 0544

: Routine Size: 30 bytes, Routine Base: \$CODE\$ + 03FA

```

: 551 0545 1
: 552 0546 0 END ELUDOM

```

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	3328	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	32	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	1048	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	61 0	581	00:01.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DCLDIET/OBJ=OBJ\$:DCLDIET MSRC\$:DCLDIET/UPDATE=(ENH\$:DCLDIET)

: Size: 1048 code + 3360 data bytes
 : Run Time: 00:23.9
 : Elapsed Time: 00:46.5
 : Lines/CPU Min: 1370
 : Lexemes/CPU-Min: 32610
 : Memory Used: 183 pages
 : Compilation Complete

0429 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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The image displays a 10x10 grid of 100 small terminal window screenshots. Each window represents a different menu or command-line interface from the Digital Equipment Corporation VAX/VMS V4.0 software. The windows are arranged in a regular grid pattern. Several windows are clearly labeled with titles, such as 'DISKMON LIS' (top row, 7th column), 'DCLDIET LIS' (2nd row, 6th column), 'TOCOLLECT LIS' (2nd row, 8th column), 'SEARCH LIS' (2nd row, 9th column), 'RTB MAP' (3rd row, 1st column), 'SETUSER MAP' (4th row, 1st column), 'GETINFO LIS' (5th row, 8th column), 'RTB LIS' (6th row, 9th column), 'DISKQ LIS' (7th row, 5th column), 'SEARCH MAP' (8th row, 1st column), 'CHECKSUM LIS' (9th row, 1st column), and 'CKSMMSG LIS' (9th row, 6th column). The content within the windows varies, showing text-based data, lists, and status information typical of a VMS environment.