





```
1 0001 0 %TITLE 'CNVDAT - Converts binary date and time into ascii'  
2 0002 0 MODULE CNVDAT ( IDENT = 'v04-000'  
3 P 0003 0 %BLISS32 [ , ADDRESSING_MODE ( EXTERNAL = LONG_RELATIVE,  
4 0004 0 NONEXTERNAL = LONG_RELATIVE ) ]  
5 0005 0 ) =  
6 0006 1 BEGIN  
7 0007 1  
8 0008 1 *****  
9 0009 1 *  
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
12 0012 1 * ALL RIGHTS RESERVED. *  
13 0013 1 *  
14 0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  
15 0015 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *  
16 0016 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *  
17 0017 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *  
18 0018 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *  
19 0019 1 * TRANSFERRED. *  
20 0020 1 *  
21 0021 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *  
22 0022 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *  
23 0023 1 * CORPORATION. *  
24 0024 1 *  
25 0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *  
26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
27 0027 1 *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1 ++  
32 0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
33 0033 1  
34 0034 1 ABSTRACT: Convert binary and date and time into something  
35 0035 1 more legible (i.e., ASCII).  
36 0036 1  
37 0037 1  
38 0038 1 ENVIRONMENT: Transportable  
39 0039 1  
40 0040 1 AUTHOR: R.W.Friday CREATION DATE: February, 1979  
41 0041 1
```

```
43 0042 1 %SBTTL 'Revision History'  
44 0043 1  
45 0044 1 MODIFIED BY:  
46 0045 1  
47 0046 1 009 REM00009 Ray Marshall 30-Mar-1984  
48 0047 1 Added conditionals for foreign language support. Provided  
49 0048 1 German translations for the names of the months.  
50 0049 1  
51 0050 1 008 KFA00008 Ken Alden 16-Sep-1983  
52 0051 1 Did the same as 007 but did it for RUNOFF.  
53 0052 1  
54 0053 1 007 KFA00007 Ken Alden 8-Jul-1983  
55 0054 1 Removed hack that always assumed that the date was  
56 0055 1 two characters long.  
57 0056 1  
58 0057 1 006 KFA00006 Ken Alden 8-Jul-1983  
59 0058 1 Removed the leading '0' from the date (if any).  
60 0059 1  
61 0060 1 005 KFA00005 Ken Alden 13-April-1983  
62 0061 1 For DSRPLUS: Format of the date will now read like  
63 0062 1 the date of this rev. history.(without the hyphens)  
64 0063 1  
65 0064 1 004 KFA00004 Ken Alden 07-Mar-1983  
66 0065 1 Global edit of all modules. Updated module names, idents,  
67 0066 1 copyright dates. Changed require files to BLISS library.  
68 0067 1  
69 0068 1 --
```

```
.. 71 0069 1 %SBTTL 'Module Level Declarations'  
.. 72 0070 1  
.. 73 0071 1 : TABLE OF CONTENTS:  
.. 74 0072 1 :  
.. 75 0073 1 :  
.. 76 0074 1 :  
.. 77 0075 1 : INCLUDE FILES:  
.. 78 0076 1 :  
.. 79 0077 1 :  
.. 80 0078 1 LIBRARY 'NXPORT:XPORT'; : XPORT Library  
.. 81 0079 1 REQUIRE 'REQ:RNODEF'; : RUNOFF variant definitions  
.. 82 0210 1  
.. 83 U 0211 1 %IF DSRPLUS %THEN  
.. 84 U 0212 1 LIBRARY 'REQ:DPLLIB'; : DSRPLUS BLISS Library  
.. 85 0213 1 %ELSE  
.. 86 0214 1 LIBRARY 'REQ:DSRLIB'; : DSR BLISS Library  
.. 87 0215 1 %FI  
.. 88 0216 1 :  
.. 89 0217 1 :  
.. 90 0218 1 : MACROS:  
.. 91 0219 1 :  
.. 92 0220 1 :  
.. 93 0221 1 :  
.. 94 0222 1 : EQUATED SYMBOLS:  
.. 95 0223 1 :  
.. 96 0224 1 :  
.. 97 0225 1 :  
.. 98 0226 1 : OWN STORAGE:  
.. 99 0227 1 :  
100 0228 1 :  
101 0229 1 :  
102 0230 1 : EXTERNAL REFERENCES:  
103 0231 1 :  
104 0232 1 EXTERNAL  
105 0233 1 GCA : GCA_DEFINITION;  
106 0234 1 :  
107 0235 1 EXTERNAL ROUTINE  
108 0236 1 CONVBB;
```

110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166

```

0237 1 %sbttl 'CNV DAT -- convert date to ASCII string'
0238 1 GLOBAL ROUTINE CNV DAT (PIECES, RESULT, RESULT_LENGTH) : NOVALUE = !
0239 1
0240 1 +-
0241 1 FUNCTIONAL DESCRIPTION:
0242 1
0243 1     Converts a binary date into something legible.
0244 1
0245 1 FORMAL PARAMETERS:
0246 1
0247 1     PIECES are the separated month, day, and year.
0248 1     It's really the complete binary date and time, but only the
0249 1     date portion is used.
0250 1     RESULT is a CH$PTR to where the results are to go.
0251 1     RESULT_LENGTH is the number of characters in the result.
0252 1
0253 1 IMPLICIT INPUTS:      None
0254 1
0255 1 IMPLICIT OUTPUTS:     None
0256 1
0257 1 ROUTINE VALUE:
0258 1 COMPLETION CODES:     None
0259 1
0260 1 SIDE EFFECTS:
0261 1
0262 1     Advances the pointer, RESULT.
0263 1
0264 1 --
0265 1
0266 2 BEGIN
0267 2
0268 2 LOCAL
0269 2     CHARS : VECTOR [20],
0270 2     COUNT;
0271 2
0272 2 MAP
0273 2     PIECES : REF VECTOR;
0274 2
0275 2 BIND
0276 2     YEAR = PIECES[0],
0277 2     MONTH = PIECES[1],
0278 2     DAY = PIECES[2];
0279 2
0280 2 !Convert the day to ASCII.
0281 2 CONVBB(.DAY,CHARS,COUNT, 10);
0282 2
0283 2 !!!
0284 2     !Insist that the day be two digits.
0285 2     IF !
0286 2     .COUNT NEQ 2
0287 2     THEN
0288 2     CH$WCHAR_A(%C'0', .RESULT);
0289 2
0290 2 !Now copy over what was actually converted.
0291 2 DECR I FROM .COUNT TO 1 DO
0292 2     CH$WCHAR_A(.CHARS[I-1], .RESULT);
0293 2
0293 2 !Now, add an appropriate separator.
  
```

```
167 0294 2 CH$WCHAR_A(%C' ', .RESULT);
168 0295 2
169 0296 !Add the name of the month.
170 0297 BEGIN
171 0298 BIND
172 0299 MONTH_NAME= UPLIT (
173 C 0300 X: The following block of code is commented out because the
174 C 0301 one that follows defines the month names in their fully
175 C 0302 spelled out forms.
176 C 0303 %IF german %THEN
177 C 0304 CH$PTR(UPLIT('Jan')),
178 C 0305 CH$PTR(UPLIT('Feb')),
179 C 0306 CH$PTR(UPLIT('Mar')),
180 C 0307 CH$PTR(UPLIT('Apr')),
181 C 0308 CH$PTR(UPLIT('Mai')),
182 C 0309 CH$PTR(UPLIT('Jun')),
183 C 0310 CH$PTR(UPLIT('Jul')),
184 C 0311 CH$PTR(UPLIT('Aug')),
185 C 0312 CH$PTR(UPLIT('Sep')),
186 C 0313 CH$PTR(UPLIT('Okt')),
187 C 0314 CH$PTR(UPLIT('Nov')),
188 C 0315 CH$PTR(UPLIT('Dez'))
189 C 0316 %ELSE
190 C 0317 %IF french %THEN
191 C 0318 CH$PTR(UPLIT('Jan')),
192 C 0319 CH$PTR(UPLIT('Feb')),
193 C 0320 CH$PTR(UPLIT('Mar')),
194 C 0321 CH$PTR(UPLIT('Apr')),
195 C 0322 CH$PTR(UPLIT('May')),
196 C 0323 CH$PTR(UPLIT('Jun')),
197 C 0324 CH$PTR(UPLIT('Jul')),
198 C 0325 CH$PTR(UPLIT('Aug')),
199 C 0326 CH$PTR(UPLIT('Sep')),
200 C 0327 CH$PTR(UPLIT('Oct')),
201 C 0328 CH$PTR(UPLIT('Nov')),
202 C 0329 CH$PTR(UPLIT('Dec'))
203 C 0330 %ELSE
204 C 0331 %IF italian %THEN
205 C 0332 CH$PTR(UPLIT('Jan')),
206 C 0333 CH$PTR(UPLIT('Feb')),
207 C 0334 CH$PTR(UPLIT('Mar')),
208 C 0335 CH$PTR(UPLIT('Apr')),
209 C 0336 CH$PTR(UPLIT('May')),
210 C 0337 CH$PTR(UPLIT('Jun')),
211 C 0338 CH$PTR(UPLIT('Jul')),
212 C 0339 CH$PTR(UPLIT('Aug')),
213 C 0340 CH$PTR(UPLIT('Sep')),
214 C 0341 CH$PTR(UPLIT('Oct')),
215 C 0342 CH$PTR(UPLIT('Nov')),
216 C 0343 CH$PTR(UPLIT('Dec'))
217 C 0344 %ELSE
218 C 0345 CH$PTR(UPLIT('Jan')),
219 C 0346 CH$PTR(UPLIT('Feb')),
220 C 0347 CH$PTR(UPLIT('Mar')),
221 C 0348 CH$PTR(UPLIT('Apr')),
222 C 0349 CH$PTR(UPLIT('May')),
223 C 0350 CH$PTR(UPLIT('Jun')),
```

```

224 C 0351 CHSPTR(UPLIT('Jul')),
225 C 0352 CHSPTR(UPLIT('Aug')),
226 C 0353 CHSPTR(UPLIT('Sep')),
227 C 0354 CHSPTR(UPLIT('Oct')),
228 C 0355 CHSPTR(UPLIT('Nov')),
229 C 0356 CHSPTR(UPLIT('Dec')),
230 C 0357 %FI %FI %FI
231 )%
232 U 0359 %IF german %THEN
233 U 0360 CHSPTR(UPLIT('Jaenner')),
234 U 0361 CHSPTR(UPLIT('Februar')),
235 U 0362 CHSPTR(UPLIT('Maerz')),
236 U 0363 CHSPTR(UPLIT('April')),
237 U 0364 CHSPTR(UPLIT('Mai')),
238 U 0365 CHSPTR(UPLIT('Juni')),
239 U 0366 CHSPTR(UPLIT('Juli')),
240 U 0367 CHSPTR(UPLIT('August')),
241 U 0368 CHSPTR(UPLIT('September')),
242 U 0369 CHSPTR(UPLIT('Oktober')),
243 U 0370 CHSPTR(UPLIT('November')),
244 U 0371 CHSPTR(UPLIT('Dezember'))
245 %ELSE
246 U 0373 %IF french %THEN
247 U 0374 CHSPTR(UPLIT('January')),
248 U 0375 CHSPTR(UPLIT('February')),
249 U 0376 CHSPTR(UPLIT('March')),
250 U 0377 CHSPTR(UPLIT('April')),
251 U 0378 CHSPTR(UPLIT('May')),
252 U 0379 CHSPTR(UPLIT('June')),
253 U 0380 CHSPTR(UPLIT('July')),
254 U 0381 CHSPTR(UPLIT('August')),
255 U 0382 CHSPTR(UPLIT('September')),
256 U 0383 CHSPTR(UPLIT('October')),
257 U 0384 CHSPTR(UPLIT('November')),
258 U 0385 CHSPTR(UPLIT('December')),
259 %ELSE
260 U 0387 %IF italian %THEN
261 U 0388 CHSPTR(UPLIT('January')),
262 U 0389 CHSPTR(UPLIT('February')),
263 U 0390 CHSPTR(UPLIT('March')),
264 U 0391 CHSPTR(UPLIT('April')),
265 U 0392 CHSPTR(UPLIT('May')),
266 U 0393 CHSPTR(UPLIT('June')),
267 U 0394 CHSPTR(UPLIT('July')),
268 U 0395 CHSPTR(UPLIT('August')),
269 U 0396 CHSPTR(UPLIT('September')),
270 U 0397 CHSPTR(UPLIT('October')),
271 U 0398 CHSPTR(UPLIT('November')),
272 U 0399 CHSPTR(UPLIT('December'))
273 %ELSE
274 U 0401 CHSPTR(UPLIT('January')),
275 U 0402 CHSPTR(UPLIT('February')),
276 U 0403 CHSPTR(UPLIT('March')),
277 U 0404 CHSPTR(UPLIT('April')),
278 U 0405 CHSPTR(UPLIT('May')),
279 U 0406 CHSPTR(UPLIT('June')),
280 U 0407 CHSPTR(UPLIT('July')),

```



```

281 0408 CH$PTR(UPLIT('August')),
282 0409 CH$PTR(UPLIT('September')),
283 0410 CH$PTR(UPLIT('October')),
284 0411 CH$PTR(UPLIT('November')),
285 0412 CH$PTR(UPLIT('December'))
286 0413 %FI %FI %FI
287 0414 ) : VECTOR;
288 0415 OWN
289 0416 MONTHL : VECTOR [12]
290 0417 %IF german %THEN
291 U 0418 INITIAL (7, 7, 5, 5, 3, 4, 4, 6, 9, 7, 8, 8);
292 0419 %ELSE
293 U 0420 %IF french %THEN
294 U 0421 INITIAL (7, 8, 5, 5, 3, 4, 4, 6, 9, 7, 8, 8);
295 0422 %ELSE
296 U 0423 %IF italian %THEN
297 0424 INITIAL (7, 8, 5, 5, 3, 4, 4, 6, 9, 7, 8, 8);
298 0425 %ELSE
299 0426 INITIAL (7, 8, 5, 5, 3, 4, 4, 6, 9, 7, 8, 8);
300 0427 %FI %FI %FI
301 0428
302 0429 LOCAL
303 0430 len,
304 0431 ptr;
305 0432
306 0433
307 0434 len = .monthl[.month-1];
308 0435 PTR = .MONTH NAME[.MONTH-1];
309 0436 INCR I FROM 1 TO .len DO CH$WCHAR_A(CH$RCHAR_A(PTR), .RESULT);
310 0437
311 0438 !! INCR I FROM 1 TO 3 DO CH$WCHAR_A(CH$RCHAR_A(PTR), .RESULT);
312 0439
313 0440 !Add a separator.
314 0441 CH$WCHAR_A('%C' ', .RESULT);
315 0442
316 0443 !Result length prior to year string:
317 0444 .RESULT_LENGTH = .count + 1 + .len + 1;
318 0445 END;
319 0446
320 0447 !Put in the year.
321 0448 CONVBB(.YEAR, CHARS, COUNT, 10);
322 0449
323 0450
324 0451 IF .count EQL 1 THEN
325 0452 BEGIN
326 0453 CH$WCHAR_A('%C' '0', .RESULT);
327 0454 CH$WCHAR_A(.CHARS[0], .RESULT);
328 0455 .RESULT_LENGTH = ..RESULT_LENGTH + 2
329 0456 END;
330 0457
331 0458 IF .count GTR 1 THEN
332 0459
333 0460 !%IF DSRPLUS %THEN
334 0461 BEGIN
335 0462 DECR i FROM .count TO 1 DO
336 0463 CH$WCHAR_A(.CHARS[i-1], .RESULT);
337 0464 .RESULT_LENGTH = ..RESULT_LENGTH + .count;
  
```



50	64	04	FB	00021	CALLS	#4, CONVBB	
	6E	01	C1	00024	ADDL3	#1, COUNT, I	0291
		0B	11	00028	BRB	2\$	
	51	08	AC	0002A	1\$:	MCVL	RESULT, R1
00	B1	6E40	F6	0002E	CVTLB	CHARS-4[I], @0(R1)	
		61	D6	00033	INCL	(R1)	
	F2	50	F5	00035	2\$:	SOBGTR	I, 1\$
	50	08	AC	00038	MOVL	RESULT, R0	0294
00	B0	20	90	0003C	MOVB	#32, @0(R0)	
		60	D6	00040	INCL	(R0)	
	50	62	D0	00042	MOVL	(R2), R0	0434
	53	00000000	'EF40	D0	00045	MOVL	MONTHL-4[R0], LEN
	52	00000000	'EF40	D0	00040	MOVL	MONTH_NAME-4[R0], PTR
		51	D4	00055	CLRL	I	0435
		0A	11	00057	BRB	4\$	0436
	50	08	AC	00059	3\$:	MOVL	RESULT, R0
00	B0	82	90	0005D	MOVB	(PTR)+, @0(R0)	
		60	D6	00061	INCL	(R0)	
F2	51	53	F3	00063	4\$:	AOBLEQ	LEN, I, 3\$
	51	08	AC	00067	MOVL	RESULT, R1	0441
00	B1	20	90	0006B	MOVB	#32, @0(R1)	
		61	D6	0006F	INCL	(R1)	
50	6E	53	C1	00071	ADDL3	LEN, COUNT, R0	0444
0C	BC	02	A0	9E	00075	MOVAB	2(R0), @RESULT_LENGTH
		0A	DD	0007A	PUSHL	#10	0448
		04	AE	9F	0007C	PUSHAB	COUNT
		0C	AE	9F	0007F	PUSHAB	CHARS
		04	BC	DD	00082	PUSHL	@PIECES
	64	04	FB	00085	CALLS	#4, CONVBB	
	01	6E	D1	00088	CMPL	COUNT, #1	0451
		19	12	0008B	BNEQ	5\$	
	50	08	AC	0008D	MOVL	RESULT, R0	0453
00	B0	30	90	00091	MOVB	#48, @0(R0)	
		60	D6	00095	INCL	(R0)	
	50	08	AC	00097	MOVL	RESULT, R0	0454
00	B0	04	AE	90	0009B	MOVB	CHARS, @0(R0)
		60	D6	000A0	INCL	(R0)	
	0C	BC	02	C0	000A2	ADDL2	#2, @RESULT_LENGTH
		01	6E	D1	000A6	5\$:	CMPL
		18	15	000A9	BLEQ	8\$	0455
50	6E	01	C1	000AB	ADDL3	#1, COUNT, I	0463
		0B	11	000AF	BRB	7\$	
	51	08	AC	000B1	6\$:	MOVL	RESULT, R1
00	B1	6E40	F6	000B5	CVTLB	CHARS-4[I], @0(R1)	
		61	D6	000BA	INCL	(R1)	
	F2	50	F5	000BC	7\$:	SOBGTR	I, 6\$
0C	BC	6E	C0	000BF	ADDL2	COUNT, @RESULT_LENGTH	0464
		04	000C3	8\$:	RET		0478

; Routine Size: 196 bytes, Routine Base: \$CODE\$ + 0000

```

353 0479 1 %sbttl 'CNVTIM -- Convert time to ASCII string'
354 0480 1 GLOBAL ROUTINE CNVTIM (PIECES, RESULT, RESULT_LENGTH) : NOVALUE = !
355 0481 1
356 0482 1 !++
357 0483 1 ! FUNCTIONAL DESCRIPTION:
358 0484 1
359 0485 1 ! Converts a binary time into something legible.
360 0486 1
361 0487 1 ! FORMAL PARAMETERS:
362 0488 1
363 0489 1 ! PIECES is the complete binary date and time. This routine
364 0490 1 ! uses only the time information.
365 0491 1 ! RESULT is a CH$PTR to where the results are to go.
366 0492 1 ! RESULT_LENGTH is the number of characters in the result.
367 0493 1
368 0494 1 ! IMPLICIT INPUTS: None
369 0495 1
370 0496 1 ! IMPLICIT OUTPUTS: None
371 0497 1
372 0498 1 ! ROUTINE VALUE:
373 0499 1 ! COMPLETION CODES: None
374 0500 1
375 0501 1 ! SIDE EFFECTS:
376 0502 1
377 0503 1 ! Advances the pointer, RESULT.
378 0504 1
379 0505 1 --
380 0506 1
381 0507 2 BEGIN
382 0508 2
383 0509 2 LOCAL
384 0510 2 CHARS : VECTOR[20],
385 0511 2 COUNT;
386 0512 2
387 0513 2 MAP
388 0514 2 PIECES : REF VECTOR;
389 0515 2
390 0516 2 BIND
391 0517 2 HOURS = PIECES[3],
392 0518 2 MINUTES = PIECES [4],
393 0519 2 SECONDS = PIECES [5];
394 0520 2
395 0521 2 !Convert the hours.
396 0522 2 CONVBB(.HOURS,CHARS,COUNT, 10);
397 0523 2
398 0524 2 !Put the characters into the string. Force it to be exactly
399 0525 2 !two digits.
400 0526 2 INCR I FROM 1 TO (2 - .COUNT) DO
401 0527 2 CH$WCHAR_A(%C'0', .RESULT);
402 0528 2 DECR I FROM .COUNT TO 1 DO
403 0529 2 CH$WCHAR_A(.CHARS[I-1], .RESULT);
404 0530 2
405 0531 2 !Insert a separator
406 0532 2 CH$WCHAR_A(%C':', .RESULT);
407 0533 2
408 0534 2 !Convert the minutes
409 0535 2 CONVBB(.MINUTES,CHARS,COUNT, 10);

```

```

410 0536 2
411 0537 2 !Put the characters into the string. Force it to be exactly
412 0538 2 !two digits.
413 0539 2 INCR I FROM 1 TO (2 - .COUNT) DO
414 0540 2 CHSWCHAR_A(%C'0', .RESULT);
415 0541 2 DECR I FROM .COUNT TO 1 DO
416 0542 2 CHSWCHAR_A(.CHARS[I-1], .RESULT);
417 0543 2
418 0544 2 !Insert a separator
419 0545 2 CHSWCHAR_A(%C':', .RESULT);
420 0546 2
421 0547 2 !Convert the seconds
422 0548 2 CONVBB(.SECONDS,CHARS,COUNT, 10);
423 0549 2
424 0550 2 !Put the characters into the string. Force it to be exactly
425 0551 2 !two digits.
426 0552 2 INCR I FROM 1 TO (2 - .COUNT) DO
427 0553 2 CHSWCHAR_A(%C'0', .RESULT);
428 0554 2 DECR I FROM .COUNT TO 1 DO
429 0555 2 CHSWCHAR_A(.CHARS[I-1], .RESULT);
430 0556 2
431 0557 2 !Return the length.
432 0558 2 .RESULT_LENGTH = 2 + 1 + 2 + 1 + 2;
433 0559 2
434 0560 2 RETURN;
435 0561 2
436 0562 1 END;

```

!End of CNVTIM

				003C	00000		.ENTRY	CNVTIM, Save R2,R3,R4,R5		0480
		55	00000000G	EF	9E	00002	MOVAB	CONVBB, R5		
		5E	AC	AE	9E	00009	MOVAB	-84(SP), SP		
50	04	AC		OC	C1	0000D	ADDL3	#12, PIECES, R0		0517
53	04	AC		10	C1	00012	ADDL3	#16, PIECES, R3		0518
54	04	AC		14	C1	00017	ADDL3	#20, PIECES, R4		0519
				0A	DD	0001C	PUSHL	#10		0522
			04	AE	9F	0001E	PUSHAB	COUNT		
			0C	AE	9F	00021	PUSHAB	CHARS		
				60	DD	00024	PUSHL	(R0)		
		65		04	FB	00026	CALLS	#4, CONVBB		
51	02			6E	C3	00029	SUBL3	COUNT, #2, R1		0526
				52	D4	0002D	CLRL	I		0527
				0A	11	0002F	BRB	2\$		
		50	08	AC	D0	00031	MOVL	RESULT, R0		
	00	B0		30	90	C0035	MOVB	#48, @0(R0)		
				60	D6	00039	INCL	(R0)		
F2		52		51	F3	0003B	AOBLEQ	R1, I, 1\$		
50		6E		01	C1	0003F	ADDL3	#1, COUNT, I		0529
				0B	11	00043	BRB	4\$		
		51	08	AC	D0	00045	MOVL	RESULT, R1		
	00	B1		6E40	F6	00049	CVTLB	CHARS-4[I], @0(R1)		
				61	D6	0004E	INCL	(R1)		
		F2		50	F5	00050	SOBGTR	I, 3\$		
		50	08	AC	D0	00053	MOVL	RESULT, R0		0532

00	B0		3A 90 00057	MOVB	#58, @0(R0)	
			60 D6 00058	INCL	(R0)	
			0A DD 0005D	PUSHL	#10	0535
		04	AE 9F 0005F	PUSHAB	COUNT	
		0C	AE 9F 00062	PUSHAB	CHARS	
			63 DD 00065	PUSHL	(R3)	
	65		04 FB 00067	CALLS	#4, CONVBB	
51	02		6E C3 0006A	SUBL3	COUNT, #2, R1	0539
			53 D4 0006E	CLRL	I	0540
			0A 11 00070	BRB	6\$	
	50	08	AC D0 00072	5\$:	MOVL	RESULT, R0
	80		30 90 00076	MOVB	#48, @0(R0)	
			60 D6 0007A	INCL	(R0)	
F2	53		51 F3 0007C	6\$:	AOBLEQ	R1, I, 5\$
50	6E		01 C1 00080	ADDL3	#1, COUNT, I	0542
			0B 11 00084	BRB	8\$	
	51	08	AC D0 00086	7\$:	MOVL	RESULT, R1
	B1		6E40 F6 0008A	CVTLB	CHARS-4[I], @0(R1)	
			61 D6 0008F	INCL	(R1)	
	F2		50 F5 00091	8\$:	SOBGTR	I, 7\$
	50	08	AC D0 00094	MOVL	RESULT, R0	0545
	80		3A 90 00098	MOVB	#58, @0(R0)	
			60 D6 0009C	INCL	(R0)	
			0A DD 0009E	PUSHL	#10	0548
		04	AE 9F 000A0	PUSHAB	COUNT	
		0C	AE 9F 000A3	PUSHAB	CHARS	
			64 DD 000A6	PUSHL	(R4)	
	65		04 FB 000A8	CALLS	#4, CONVBB	
51	02		6E C3 000AB	SUBL3	COUNT, #2, R1	0552
			52 D4 000AF	CLRL	I	0553
			0A 11 000B1	BRB	10\$	
	50	08	AC D0 000B3	9\$:	MOVL	RESULT, R0
	80		30 90 000B7	MOVB	#48, @0(R0)	
			60 D6 000BB	INCL	(R0)	
F2	52		51 F3 000BD	10\$:	AOBLEQ	R1, I, 9\$
50	6E		01 C1 000C1	ADDL3	#1, COUNT, I	0555
			0B 11 000C5	BRB	12\$	
	51	08	AC D0 000C7	11\$:	MOVL	RESULT, R1
	B1		6E40 F6 000CB	CVTLB	CHARS-4[I], @0(R1)	
			61 D6 000D0	INCL	(R1)	
	F2		50 F5 000D2	12\$:	SOBGTR	I, 11\$
	8C		08 D0 000D5	MOVL	#8, @RESULT_LENGTH	0558
			04 000D9	RET		0562

; Routine Size: 218 bytes, Routine Base: \$CODE\$ + 00C4

; 437 0563 1 END !End of module  
; 438 0564 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	136	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$OWNS	48	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	414	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	2	0	86	00:00.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CNV DAT/OBJ=OBJ\$:CNV DAT MSRC\$:CNV DAT/UPDATE=(ENHS:CNV DAT)

: Size: 414 code + 184 data bytes  
 : Run Time: 00:09.6  
 : Elapsed Time: 00:27.0  
 : Lines/CPU Min: 3536  
 : Lexemes/CPU-Min: 15529  
 : Memory Used: 80 pages  
 : Compilation Complete



