


```

PPPPPPPP      AAAAAA      GGGGGGGG      MM      MM      RRRRRRRR      GGGGGGGG
PPPPPPPP      AAAAAA      GGGGGGGG      MM      MM      RRRRRRRR      GGGGGGGG
PP      rP      AA      AA      GG      MMMM      MMMM      RR      RR      GG
PP      PP      AA      AA      GG      MMMM      MMMM      RR      RR      GG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PPPPPPPP      AA      AA      GG      MM      MM      RRRRRRRR      GG
PPPPPPPP      AA      AA      GG      MM      MM      RRRRRRRR      GG
PP      AAAAAAAAAA      GG      GGGGGG      MM      MM      RR      RR      GG      GGGGGG
PP      AAAAAAAAAA      GG      GGGGGG      MM      MM      RR      RR      GG      GGGGGG
PP      AA      AA      GG      GG      MM      MM      RR      RR      GG      GG
PP      AA      AA      GG      GG      MM      MM      RR      RR      GG      GG
PP      AA      AA      GGGGGG      MM      MM      RR      RR      GGGGGG
PP      AA      AA      GGGGGG      MM      MM      RR      RR      GGGGGG

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE PAGMRG (IDENT = 'V04-000'
2 0002 0 %BLISS32[,ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)]
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY:
32 0032 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility
33 0033 1
34 0034 1 ABSTRACT: Compares page numbers to see if they can be merged.
35 0035 1
36 0036 1 ENVIRONMENT: Transportable
37 0037 1
38 0038 1 AUTHOR: R. W. Friday
39 0039 1
40 0040 1 CREATION DATE: May, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1 002 JPK00024 23-May-1983
44 0044 1 Modified lowercasing algorithm in PERMUTE. Now lowercase only
45 0045 1 if word contains only 1 letter or if second letter in word is
46 0046 1 lowercase. Picked up modules PAGMRG and POOL from DSR/DSRPLUS
47 0047 1 since they are no longer used by DSR/DSRPLUS.
48 0048 1
49 0049 1 --
50 0050 1
51 0051 1
52 0052 1 TABLE OF CONTENTS
53 0053 1
54 0054 1
55 0055 1 FORWARD ROUTINE
56 0056 1 PAGMRG;
57 0057 1

```

```
58 0058 1 |
59 0059 1 | INCLUDE FILES:
60 0060 1 |
61 0061 1 |
62 0062 1 | LIBRARY 'NXPORT:XPORT';
63 0063 1 |
64 0064 1 | REQUIRE 'REQ:PAGEN';
65 0145 1 |
66 0146 1 |
67 0147 1 | MACROS:
68 0148 1 |
69 0149 1 | EQUATED SYMBOLS:
70 0150 1 |
71 0151 1 |
72 0152 1 | LITERAL
73 0153 1 |   TRUE = 1
74 0154 1 |   FALSE = 0;
75 0155 1 |
76 0156 1 |
77 0157 1 | OWN STORAGE:
78 0158 1 |
79 0159 1 |
80 0160 1 | EXTERNAL REFERENCES:
81 0161 1 |
82 0162 1 |
83 0163 1 | EXTERNAL ROUTINE
84 0164 1 |   DSPEQL;
```

```

: 86 0165 1 %SBTTL 'PAGMRG -- Compare two page entries to see if they can be merged'
: 87 0166 1 GLOBAL ROUTINE PAGMRG (ENTRY1, ENTRY2) =
: 88 0167 1
: 89 0168 1
: 90 0169 1 +-
: 91 0170 1 FUNCTIONAL DESCRIPTION:
: 92 0171 1 Compare two page numbers to see if they are adjacent pages.
: 93 0172 1
: 94 0173 1 FORMAL PARAMETERS:
: 95 0174 1
: 96 0175 1 ENTRY1 and ENTRY2 are the page numbers to be compared.
: 97 0176 1
: 98 0177 1 IMPLICIT INPUTS:
: 99 0178 1
: 100 0179 1 NONE
: 101 0180 1
: 102 0181 1 IMPLICIT OUTPUTS:
: 103 0182 1
: 104 0183 1 NONE
: 105 0184 1
: 106 0185 1 ROUTINE VALUE:
: 107 0186 1 COMPLETION CODES:
: 108 0187 1
: 109 0188 1 TRUE - Specified page numbers are adjacent
: 110 0189 1 FALSE - Specified page numbers are not adjacent
: 111 0190 1
: 112 0191 1 SIDE EFFECTS:
: 113 0192 1
: 114 0193 1 NONE
: 115 0194 1
: 116 0195 1 --
: 117 0196 1
: 118 0197 2 BEGIN
: 119 0198 2
: 120 0199 2 MAP
: 121 0200 2 ENTRY1 : REF PAGE_DEFINITION,
: 122 0201 2 ENTRY2 : REF PAGE_DEFINITION;
: 123 0202 2
: 124 0203 2
: 125 0204 2 Both entries must exist
: 126 0205 2
: 127 0206 2 IF (.ENTRY1 EQL 0) OR (.ENTRY2 EQL 0) THEN RETURN FALSE;
: 128 0207 2
: 129 0208 2
: 130 0209 2 By definition, you can't merge page numbers if
: 131 0210 2 their display characteristics are different. Test for this.
: 132 0211 2
: 133 0212 2 IF NOT DSPEQL (.ENTRY1, .ENTRY2) THEN RETURN FALSE;
: 134 0213 2
: 135 0214 2
: 136 0215 2 Section type must match
: 137 0216 2
: 138 0217 2 IF .ENTRY1 [SCT_TYP] NEQ .ENTRY2 [SCT_TYP] THEN RETURN FALSE;
: 139 0218 2
: 140 0219 2
: 141 0220 2 Section number must always match
: 142 0221 2
```

```

143 0222 2 IF .ENTRY1 [SCT_NUMBER] NEQ .ENTRY2 [SCT_NUMBER] THEN RETURN FALSE;
144 0223 2
145 0224 2
146 0225 2 If sub-page exists, the page number must match and the sub-pages
147 0226 2 must differ only by 1
148 0227 2
149 0228 2 IF .ENTRY1 [SCT_SUB_PAGE] NEQ 0
150 0229 2 THEN
151 0230 2 BEGIN
152 0231 2
153 0232 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
154 0233 2
155 0234 2 IF (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE] - 1)
156 0235 2 AND (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE])
157 0236 2 THEN
158 0237 2 RETURN FALSE;
159 0238 2
160 0239 2 RETURN TRUE
161 0240 2 END;
162 0241 2
163 0242 2
164 0243 2 If all else is OK, page numbers can differ only by 0 or 1
165 0244 2
166 0245 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] - 1
167 0246 2 THEN
168 0247 2 BEGIN
169 0248 2
170 0249 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
171 0250 2 END;
172 0251 2
173 0252 2 RETURN TRUE;
174 0253 2 END;

```

!End of PAGMRG

```

.TITLE PAGMRG
.IDENT \V04-000\
.EXTRN DSPEQL
.PSECT $CODE$,NOWRT,2
.ENTRY PAGMRG, Save R2,R3
MOVL ENTRY1, R2
BEQL 4$
TSTL ENTRY2
BEQL 4$
MOVL ENTRY2, R3
PUSHR #^M<R2,R3>
CALLS #2, DSPEQL
BLBC R0, 4$
XORB3 (R2), (R3), R0
BITB R0, #15
BNEQ 4$
CMPL 4(R2), 4(R3)
BNEQ 4$
TSTW 2(R2)
BEQL 1$

```

			000C	00000
52	04	AC	D0	00002
		5C	13	00006
	08	AC	D5	00008
		57	13	0000B
53	08	AC	D0	0000D
		0C	BB	00011
00000000G	EF	02	FB	00013
50	47	50	E9	0001A
	63	62	8D	0001D
	0F	50	93	00021
		7E	12	00024
04	A3	04	A2	D1 00026
			37	12 0002B
		02	A2	B5 0002D
			1C	13 00030

0166
0206
0212
0217
0222
0228

	08	A3	08	A2	D1	00032		CPL	8(R2), 8(R3)	:	0232	
				2B	12	00037		BNEQ	4\$:		
	50		02	A3	3C	00039		MOVZWL	2(R3), R0	:	0234	
				50	D7	0003D		DECL	R0	:		
50		02	A2		00	ED	0003F	CMPZV	#0, #16, 2(R2), R0	:		
					19	13	00045	BEQL	3\$:		
	02	A3	02	A2	B1	00047		CMPW	2(R2), 2(R3)	:	0235	
				10	11	0004C		BRB	2\$:		
				50	01	C3	0004E	1\$:	SUBL3	#1, 8(R3), R0	:	0245
	08	A3	08	A2	D1	00053		CPL	8(R2), R0	:		
				50	07	13	00057	BEQL	3\$:		
	08	A3	08	A2	D1	00059		CPL	8(R2), 8(R3)	:	0249	
				50	04	12	0005E	2\$:	BNEQ	4\$:	
					01	D0	00060	3\$:	MOVL	#1, R0	:	0252
						04	00063		RET	:		
				50	D4	00064		4\$:	CLRL	R0	:	0253
					04	00066			RET	:		

: Routine Size: 103 bytes, Routine Base: \$CODE\$ + 0000

: 175 0254 1
: 176 0255 1 END !End of module
: 177 0256 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	103	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]XPORT.L32;1	590	0 0	252	00:00.1

COMMAND QUALIFIERS

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

: Size: 103 code + 0 data bytes

PAGMRG
V04-000

PAGMRG -- Compare two page entries to see if th

F 3
16-Sep-1984 01:26:01

VAX-11 Bliss-32 V4.0-742

Page 6

PA
VO

: Run Time: 00:03.6
: Elapsed Time: 00:10.7
: Lines/CPU Min: 4290
: Lexemes/CPU-Min: 17145
: Memory Used: 50 pages
: Compilation Complete

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