


```

LL      IIIIII  BBBB BBBB  AAAAAA  DDDDDDDD  DDDDDDDD  PPPPPPPP
LL      IIIIII  BBBB BBBB  AAAAAA  DDDDDDDD  DDDDDDDD  PPPPPPPP
LL      II      BB  AA  AA  DD  DD  DD  DD  PP  PP
LL      II      BB  AA  AA  DD  DD  DD  DD  PP  PP
LL      II      BB  AA  AA  DD  DD  DD  DD  PP  PP
LL      II      BB  AA  AA  DD  DD  DD  DD  PP  PP
LL      II      BBBB BBBB  AA  AA  DD  DD  DD  DD  PPPPPPPP
LL      II      BBBB BBBB  AA  AA  DD  DD  DD  DD  PPPPPPPP
LL      II      BB  AA  AA  DDDDDDDD  DDDDDDDD  PP
LL      II      BB  AA  AA  DDDDDDDD  DDDDDDDD  PP
LL      II      BB  AA  AA  DDDDDDDD  DDDDDDDD  PP
LL      II      BB  AA  AA  DDDDDDDD  DDDDDDDD  PP
LLLLLLLL  IIIIII  BBBB BBBB  AA  AA  DDDDDDDD  DDDDDDDD  PP
LLLLLLLL  IIIIII  BBBB BBBB  AA  AA  DDDDDDDD  DDDDDDDD  PP

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....
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```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
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
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

(2)	46	HISTORY	: Detailed Current Edit History
(3)	57	DECLARATIONS	
(4)	89	LIB\$\$ADDP_R7	

```
0000 1 .TITLE LIB$$ADDP_R7 Add two packed decimal numbers
0000 2 .IDENT 71-002/ ; File: LIBADDP.MAR Edit: MDL1002
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27
0000 28 : FACILITY: LANGUAGE INDEPENDENT SUPPORT
0000 29
0000 30 : ABSTRACT:
0000 31 : This module contains the routine that adds two packed decimal
0000 32 : numbers.
0000 33
0000 34 : VERSION: 1
0000 35
0000 36 : HISTORY:
0000 37
0000 38 : AUTHOR:
0000 39 : Pamela L. Levesque, 3-Feb-1982
0000 40
0000 41 : MODIFIED BY:
0000 42
0000 43
0000 44 :
```

```
0000 46      .SBTTL HISTORY      ; Detailed Current Edit History
0000 47
0000 48 :+
0000 49 : Edit History for Version 1 of LIBADDP
0000 50 :
0000 51 : 1-001 - Original. PLL 2-Feb-1982
0000 52 : 1-002 - return a status in R0.  although the caller is responsible for
0000 53 :          insuring we don't encounter reserved operand, we could get decimal
0000 54 :          overflow set. MDL 13-Jan-1984
0000 55 :-
```

```
0000 57      .SBTTL  DECLARATIONS
0000 58
0000 59  :
0000 60  : INCLUDE FILES:
0000 61  :
0000 62  :
0000 63  :
0000 64  : EXTERNAL SYMBOLS:
0000 65      .DSABL  GBL          ; Prevent undeclared symbols from
0000 66                                     ; being automatically global
0000 67
0000 68  :
0000 69  :
0000 70  :
0000 71  : MACROS:
0000 72      NONE
0000 73  :
0000 74  :
0000 75  :
0000 76  : PSECT DECLARATIONS:
0000 77      .PSECT  _LIB$CODE    PIC, SHR, LONG, EXE, NOWRT, RD
0000 78
0000 79  :
0000 80  : EQUATED SYMBOLS:
0000 81      NONE
0000 82  :
0000 83  :
0000 84  :
0000 85  : OWN STORAGE:
0000 86      NONE
0000 87  :
```

LIB
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```

0000 89      .SBTTL LIB$$ADDP_R7
0000 90
0000 91      :++
0000 92      : FUNCTIONAL DESCRIPTION:
0000 93      :
0000 94      :     Adds two packed decimal numbers.
0000 95      :
0000 96      : CALLING SEQUENCE:
0000 97      :
0000 98      :     JSB LIB$$ADDP_R7 (addlen.rl.v, addaddr.rp.r, sumlen.ml.v, sumaddr.mp.r)
0000 99      :
0000 100     :     Arguments are passed in R4, R5, R6 and R7.
0000 101     :
0000 102     : FORMAL PARAMETERS:
0000 103     :
0000 104     :     addlen.rl.v     length of addend
0000 105     :     addaddr.rp.r    address of addend string
0000 106     :     sumlen.ml.v     length of sum
0000 107     :     sumaddr.mp.r    address of sum string
0000 108     :
0000 109     : IMPLICIT INPUTS:
0000 110     :
0000 111     :     NONE
0000 112     :
0000 113     : IMPLICIT OUTPUTS:
0000 114     :
0000 115     :     NONE
0000 116     :
0000 117     : FUNCTION VALUE:
0000 118     :
0000 119     :     NONE
0000 120     :
0000 121     : SIDE EFFECTS:
0000 122     :
0000 123     :     Destroys registers R0 through R7.
0000 124     :
0000 125     :--
0000 126
0000 127
0000 128 LIB$$ADDP_R7::
0000 129
0000 130 :+
0000 131 : perform the requested addition. note that this instruction always leaves
0000 132 : the value 0 in R0. If overflow occurs, the V-bit in the PSL will be set.
0000 133 :-
67 56 65 54 20 0000 134      ADDP4   R4, (R5), R6, (R7)
0000 135      BVS     10$      ; overflow occurred?
0000 136      MOVL   #1,R0    ; no overflow, return success
50 01 00 0000 137 10$:   RSB
0000 138
0000 139      .END

```

LIB\$\$ADDP_R7 00000000 RG 01

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes														
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE				
_LIB\$CODE	0000000B (11.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:00.79
Command processing	111	00:00:00.33	00:00:02.87
Pass 1	67	00:00:00.23	00:00:01.28
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	39	00:00:00.17	00:00:00.55
Symbol table output	2	00:00:00.00	00:00:00.00
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	252	00:00:00.81	00:00:05.68

The working set limit was 900 pages.

1304 bytes (3 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 1 non-local and 1 local symbols.

139 source lines were read in Pass 1, producing 8 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:LIBADDP/OBJ=OBJ\$:LIBADDP MSRC\$:LIBADDP/UPDATE=(ENH\$:LIBADDP)

RTLMACB32 REQ	STRMACROS REQ	RTLOOBBG REQ	RTLPSECT REQ	STRLNK REQ	RTLMACMAR MAR	LIBASCEBC LIS	LIBASTINP LIS	LIBBINTRE LIS	LIBCHAR LIS
					LIBDEF FOR	LIBANASTR LIS	LIBASNMBX LIS	LIBBBCCI LIS	
					LIBABUPCA LIS	LIBADDP LIS			
					SIGDEF FOR	LIBASCTIM LIS			
					LIBTABMAC MAR	LIBATTACH LIS			
					LIBA2EREV LIS	LIBBSSSI LIS	LIBCALLG LIS	LIBCLICAL LIS	
					LIBADDP LIS				