

>>>>		ENTRIES	<<<<<<	
0	000000		ENT	RSUM8K
3	000000		ENT	RSUM#K
4	000000		ENT	RSPTRS
5	000000		ENT	SVPTRS
6	000000			

```

>>>> ROM CHECKSUM SUBROUTINE <<<<<<<<
5 000000 *****
8 000000 *
9 000000 * SET BIN. *
10 000000 * SET R32 TO 1ST ADDRESS OF ROM OR EXTERNAL ROM. *
11 000000 * TO CHECKSUM 8K ROM CALL SUBROUTINE RSUM8K . *
12 000000 * OTHER ROMS CALL RSUM#K WITH R34=(BYTES/2)-1. *
13 000000 * *
14 000000 * 2 BYTES ARE ADDED AT A TIME AND COMPARED TO *
15 000000 * 2 BYTES CHECKSUM AT THE END OF EACH ROM. *
16 000000 * Z=1 IF TEST PASSED OTHERWISE Z=0 ON RETURN. *
16 000000 * *
16 000000 *****
17 000000
18 000000 134 251 377 RSUM8K LDM R34,=377,017 COUNT=(8K/2)-1
18 000003 017
19 000004 140 223 RSUM#K CLM R40 SUM=0,DATA REG=0
20 000006 136 032 341 RSUM FOMD R36,+R32 POP 2 BYTES FROM ROM
21 000011 144 036 303 ADM R44,R36 ADD TO SUM
000014 134 213 DCM R34 DECREMENT COUNT
23 000016 366 366 JNZ RSUM REPEAT TIL COUNT=0
24 000020 146 044 303 ADM R46,R44 ADD MSREG TO LSREG
25 000023 217 HCM R46 COMPLEMENT SUM
26 000024 032 331 CMMD R46,R32 COMPL SUM=CHECKSUM?
27 000026
28 000026 236 RTN
29 000027
)
  
```

>>>> SAVE & RESTORE POINTERS

<<<<<<<<

```

1 000027
32 000027      *
32 000027      *
33 000027      *   SAVE POINTER1 AND POINTER2 IN TEMPORARY   *
34 000027      *
35 000027      *   LOCATIONS Tmptr1 AND Tmptr2   *
35 000027      *
35 000027      *
36 000027      *
37 000027 145 006 345 SVPTRS  PUMD R45,+R6          save working register
38 000032 261 310 377      LDMD R45,=PTR1
39 000035 263 216 210      STMD R45,=TMPTR1      save first pointer
40 000040 261 314 377      LDMD R45,=PTR2
41 000043 263 221 210      STMD R45,=TMPTR2      save second pointer
42 000046 343              POMD R45,-R6          restore register
43 000047 236              RTN
44 000050
45 000050 145 006 345 RSPTRS  PUMD R45,+R6          save working register
46 000053 261 216 210      LDMD R45,=TMPTR1
47 000056 263 310 377      STMD R45,=PTR1          restore first pointer
48 000061 261 221 210      LDMD R45,=TMPTR2
49 000064 263 314 377      STMD R45,=PTR2          restore second ptr
50 000067 347              POMD R45,-R6          restore register
51 000070 236              RTN
52 000071
53 000071
54 000071
55 000071              FIN
  
```

SYMBOL	VALUE	TYPE	CCUNT
PTN	177710	G DAD	2
P1	177714	G DAD	2
SPTRS	000050	ENT	1
PSUM	000006	LCL	1
PSUM#K	000004	ENT	1
PSUMSK	000000	ENT	1
SPTRS	000027	ENT	1
TMPTR1	104216	G DAD	2
TMPTR2	104221	G DAD	2

ENTRIES		
CHECKSUM SUBROUTINE	1
& RESTORE POINTERS	2
	3

OWCP2 HAD 0 ERRORS 0 WARNINGS 9 LABELS LAST ERROR AT 0