

RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000000000	FFFFFFF	FFFFFFF
RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000000000	FFFFFFF	FFFFFFF
RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000000000	FFFFFFF	FFFFFFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNNNNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNNNNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNNNNN	NNN	000	FFF	FFF
RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000	FFFFFFF	FFFFFFF
RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000	FFFFFFF	FFFFFFF
RRRRRRRRRRRR	UUU	UUU	NNN	NNN	000	FFFFFFF	FFFFFFF
RRR	RRR	UUU	NNN	NNNNNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNNNNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNNNNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUU	NNN	NNN	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU	NNN	NNN	000000000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU	NNN	NNN	000000000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU	NNN	NNN	000000000	FFF	FFF

GSL
VO4

```

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
LLLLLLLLLLLLLL          IIIIII                      SSSSSSSS
LLLLLLLLLLLLLL          IIIIII                      SSSSSSSS

```

```
0001 0 %TITLE 'GNAM - Get name from input string and convert it to uppercase'
0002 0 MODULE gname ( IDENT = 'V04-000'
P 0003 0 %BLISS32C, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0004 0 NONEXTERNAL = LONG_RELATIVE)
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0033 1
0034 1 ABSTRACT: Collects letters and digits to construct a name.
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR: R.W.Friday CREATION DATE: April, 1978
0039 1
0040 1
```

GNAME
V04-000

GNAME - Get name from input string and convert
Revision History

E 8
16-Sep-1984 00:42:38
14-Sep-1984 13:06:36

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GNAME.BLI;1 Page 2 (2)

```

: 42      0041 1 %SBTTL 'Revision History'
: 43      0042 1
: 44      0043 1 MODIFIED BY:
: 45      0044 1
: 46      0045 1      006 REM00006 Ray Marshall 7-Jun-1984
: 47      0046 1      Modified previous fix to test for the substitution flag instead
: 48      0047 1      of a hard coded dollar sign.
: 49      0048 1
: 50      0049 1      005 REM00005 Ray Marshall 6-Jun-1984
: 51      0050 1      Modified Ken's fix. Now it checks to see that the first
: 52      0051 1      character is a letter or a dollar sign (for DSRPLUS). The
: 53      0052 1      other way caused all .IFs and related directives to process
: 54      0053 1      a null parameter and can also ACCVIO if the user attempted to
: 55      0054 1      pop the IF stack too many times (with .ENDIFs) with null
: 56      0055 1      parameters. This was because a null parameter was causing
: 57      0056 1      this routine to return normal. All other places that call
: 58      0057 1      this routine test the length of the input string first and
: 59      0058 1      know that there is data in it. Only the call from IFIFNE
: 60      0059 1      failed.
: 61      0060 1
: 62      0061 1      004 KFA00004 Ken Alden 23-Sep-1983
: 63      0062 1      For DSRPLUS, removed first character restriction.
: 64      0063 1
: 65      0064 1      003 RER00003 Ron Randall 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
: 70      0069 1
```

GNAME
V04-000

GNAME - Get name from input string and convert
Module Level Declarations

F 8
16-Sep-1984 00:42:38
14-Sep-1984 13:06:36

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[RUNOFF.SRC]GNAME.BLI;1
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(3)

```

: 72      0070 1 %SBTTL 'Module Level Declarations'
: 73      0071 1
: 74      0072 1
: 75      0073 1  TABLE OF CONTENTS:
: 76      0074 1
: 77      0075 1  INCLUDE FILES:
: 78      0076 1
: 79      0077 1  LIBRARY 'NXPORT:XPORT';      ! XPORT Library
: 80      0078 1  REQUIRE 'REQ:RNODEF';        ! RUNOFF variant definitions
: 81      0209 1
: 82      U 0210 1 %IF DSRPLUS %THEN
: 83      U 0211 1  LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 84      0212 1  %ELSE
: 85      0213 1  LIBRARY 'REQ:DSRLIB';        ! DSR BLISS Library
: 86      0214 1  %FI
: 87      0215 1
: 88      0216 1
: 89      0217 1  EXTERNAL REFERENCES:
: 90      0218 1
: 91      0219 1  EXTERNAL
: 92      0220 1      flgt      : flgt_definition,  ! Flag characters.
: 93      0221 1      khar;
: 94      0222 1
```

GNAME
V04-000

GNAME - Get name from input string and convert
Module Level Declarations

G 8
16-Sep-1984 00:42:38
14-Sep-1984 13:06:36

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GNAME.BLI;1 Page 4 (4)

```

0223 1 GLOBAL ROUTINE GNAME (INPUT_STRING, OUTPUT_STRING) =
0224 1
0225 1 ++
0226 1 FUNCTIONAL DESCRIPTION:
0227 1
0228 1     GNAME processes an unbroken sequence of letters
0229 1     and digits, stopping when
0230 1     1) a nonletter or nondigit is found, or
0231 1     2) the end of the INPUT_STRING is reached, or
0232 1     3) OUTPUT_STRING is about to overflow.
0233 1 All characters accepted are transferred to OUTPUT_STRING.
0234 1
0235 1 GNAME also checks to be sure that the first character is
0236 1 indeed a letter in RUNOFF only.
0237 1
0238 1 FORMAL PARAMETERS:
0239 1
0240 1     INPUT_STRING is where the name is to come from.
0241 1     The collected string of letters is left in OUTPUT_STRING.
0242 1
0243 1 IMPLICIT INPUTS:      None
0244 1
0245 1 IMPLICIT OUTPUTS:     None
0246 1
0247 1 ROUTINE VALUE:
0248 1 COMPLETION CODES:
0249 1
0250 1     See GNCC.REQ for completion codes returned.
0251 1
0252 1 SIDE EFFECTS:         None
0253 1 --
0254 1
0255 2 BEGIN
0256 2 MAP
0257 2     output_string : REF fixed_string;
0258 2 BIND
0259 2     ira = input_string : REF fixed_string;
0260 2
0261 2 FS_INIT (OUTPUT_STRING);
0262 2
0263 4 IF (NOT letter (.khar)                ! First character must be a letter.
U 0264 4 %IF DSRPLUS %THEN
0265 4     OR
0266 4     .khar NEQ .flgt [sub_flag, flag_character]
0267 3 %FI)
0268 2 THEN
0269 2     RETURN gname_no_name;
0270 2 WHILE 1 DO
0271 2     BEGIN
0272 2
0273 3     IF ( NOT LETTER (.KHAR)) AND
0274 4     ( NOT DIGIT (.KHAR))                !Stop on an illegal character
0275 3 THEN
0276 3     RETURN GNAME_NORMAL;
0277 3
0278 3 IF .FS_LENGTH (OUTPUT_STRING) EQL .FS_MAXSIZE (OUTPUT_STRING)
0279 3 THEN
```

```

153      0280      4      (WHILE (LETTER (.KHAR) OR DIGIT (.KHAR)) DO
154      0281      4      (KCNS ()); RETURN GNAME_TOO_LONG);      !Throw away excess characters.
155      0282      4
156      0283      4      FS_WCHAR (OUTPUT_STRING,      !Convert to upper case and output the character.
157      0284      4      (IF LOWER_LETTER (.KHAR)
158      0285      4      THEN
159      0286      4      UPPER_CASE (.KHAR) ELSE .KHAR));
160      0287      4
161      0288      4      KCNS (      !Get next character.
162      0289      4      END      !end of processing loop.
163      0290      4
164      0291      1      END;      !End of GNAME

```

```
.TITLE  GNAME GNAME - Get name from input string and co
.IDENT  \V04-000\
.EXTRN  FLGT, KHAR, RINTES
.PSECT  $CODE$,NOWRT,2
```

PC	Op	OpC	OpD	OpI	OpR	OpS	OpT	OpV	OpW	OpX	OpY	OpZ	OpAA	OpAB	OpAC	OpAD	OpAE	OpAF	OpAG	OpAH	OpAI	OpAJ	OpAK	OpAL	OpAM	OpAN	OpAO	OpAP	OpAQ	OpAR	OpAS	OpAT	OpAU	OpAV	OpAW	OpAX	OpAY	OpAZ	OpBA	OpBB	OpBC	OpBD	OpBE	OpBF	OpBG	OpBH	OpBI	OpBJ	OpBK	OpBL	OpBM	OpBN	OpBO	OpBP	OpBQ	OpBR	OpBS	OpBT	OpBU	OpBV	OpBW	OpBX	OpBY	OpBZ	OpCA	OpCB	OpCC	OpCD	OpCE	OpCF	OpCG	OpCH	OpCI	OpCJ	OpCK	OpCL	OpCM	OpCN	OpCO	OpCP	OpCQ	OpCR	OpCS	OpCT	OpCU	OpCV	OpCW	OpCX	OpCY	OpCZ	OpDA	OpDB	OpDC	OpDD	OpDE	OpDF	OpDG	OpDH	OpDI	OpDJ	OpDK	OpDL	OpDM	OpDN	OpDO	OpDP	OpDQ	OpDR	OpDS	OpDT	OpDU	OpDV	OpDW	OpDX	OpDY	OpDZ	OpEA	OpEB	OpEC	OpED	OpEE	OpEF	OpEG	OpEH	OpEI	OpEJ	OpEK	OpEL	OpEM	OpEN	OpEO	OpEP	OpEQ	OpER	OpES	OpET	OpEU	OpEV	OpEW	OpEX	OpEY	OpEZ	OpFA	OpFB	OpFC	OpFD	OpFE	OpFF	OpFG	OpFH	OpFI	OpFJ	OpFK	OpFL	OpFM	OpFN	OpFO	OpFP	OpFQ	OpFR	OpFS	OpFT	OpFU	OpFV	OpFW	OpFX	OpFY	OpFZ	OpGA	OpGB	OpGC	OpGD	OpGE	OpGF	OpGG	OpGH	OpGI	OpGJ	OpGK	OpGL	OpGM	OpGN	OpGO	OpGP	OpGQ	OpGR	OpGS	OpGT	OpGU	OpGV	OpGW	OpGX	OpGY	OpGZ	OpHA	OpHB	OpHC	OpHD	OpHE	OpHF	OpHG	OpHH	OpHI	OpHJ	OpHK	OpHL	OpHM	OpHN	OpHO	OpHP	OpHQ	OpHR	OpHS	OpHT	OpHU	OpHV	OpHW	OpHX	OpHY	OpHZ	OpIA	OpIB	OpIC	OpID	OpIE	OpIF	OpIG	OpIH	OpII	OpIJ	OpIK	OpIL	OpIM	OpIN	OpIO	OpIP	OpIQ	OpIR	OpIS	OpIT	OpIU	OpIV	OpIW	OpIX	OpIY	OpIZ	OpJA	OpJB	OpJC	OpJD	OpJE	OpJF	OpJG	OpJH	OpJI	OpJJ	OpJK	OpJL	OpJM	OpJN	OpJO	OpJP	OpJQ	OpJR	OpJS	OpJT	OpJU	OpJV	OpJW	OpJX	OpJY	OpJZ	OpKA	OpKB	OpKC	OpKD	OpKE	OpKF	OpKG	OpKH	OpKI	OpKJ	OpKK	OpKL	OpKM	OpKN	OpKO	OpKP	OpKQ	OpKR	OpKS	OpKT	OpKU	OpKV	OpKW	OpKX	OpKY	OpKZ	OpLA	OpLB	OpLC	OpLD	OpLE	OpLF	OpLG	OpLH	OpLI	OpLJ	OpLK	OpLL	OpLM	OpLN	OpLO	OpLP	OpLQ	OpLR	OpLS	OpLT	OpLU	OpLV	OpLW	OpLX	OpLY	OpLZ	OpMA	OpMB	OpMC	OpMD	OpME	OpMF	OpMG	OpMH	OpMI	OpMJ	OpMK	OpML	OpMN	OpMO	OpMP	OpMQ	OpMR	OpMS	OpMT	OpMU	OpMV	OpMW	OpMX	OpMY	OpMZ	OpNA	OpNB	OpNC	OpND	OpNE	OpNF	OpNG	OpNH	OpNI	OpNJ	OpNK	OpNL	OpNM	OpNN	OpNO	OpNP	OpNQ	OpNR	OpNS	OpNT	OpNU	OpNV	OpNW	OpNX	OpNY	OpNZ	OpOA	OpOB	OpOC	OpOD	OpOE	OpOF	OpOG	OpOH	OpOI	OpOJ	OpOK	OpOL	OpOM	OpON	OpOO	OpOP	OpOQ	OpOR	OpOS	OpOT	OpOU	OpOV	OpOW	OpOX	OpOY	OpOZ	OpPA	OpPB	OpPC	OpPD	OpPE	OpPF	OpPG	OpPH	OpPI	OpPJ	OpPK	OpPL	OpPM	OpPN	OpPO	OpPP	OpPQ	OpPR	OpPS	OpPT	OpPU	OpPV	OpPW	OpPX	OpPY	OpPZ	OpQA	OpQB	OpQC	OpQD	OpQE	OpQF	OpQG	OpQH	OpQI	OpQJ	OpQK	OpQL	OpQM	OpQN	OpQO	OpQP	OpQQ	OpQR	OpQS	OpQT	OpQU	OpQV	OpQW	OpQX	OpQY	OpQZ	OpRA	OpRB	OpRC	OpRD	OpRE	OpRF	OpRG	OpRH	OpRI	OpRJ	OpRK	OpRL	OpRM	OpRN	OpRO	OpRP	OpRQ	OpRR	OpRS	OpRT	OpRU	OpRV	OpRW	OpRX	OpRY	OpRZ	OpSA	OpSB	OpSC	OpSD	OpSE	OpSF	OpSG	OpSH	OpSI	OpSJ	OpSK	OpSL	OpSM	OpSN	OpSO	OpSP	OpSQ	OpSR	OpSS	OpST	OpSU	OpSV	OpSW	OpSX
----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

GNAME
V04-000

GNAME - Get name from input string and convert
Module Level Declarations

I 8
16-Sep-1984 00:42:38
14-Sep-1984 13:06:36

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GNAME.BLI;1
Page 6
(4)

	52	04	55	12	00085	BNEQ	15\$		
	53	0C	AC	D0	00087	MOVL	IRA, R2		0281
	51		A2	9E	0008B	MOVAB	12(R2), R3		
00000041	8F		65	D0	0008F	9\$: MOVL	KHAR, R1		0280
			51	D1	00092	CMPL	R1, #65		
0000005A	8F		09	19	00099	BLSS	10\$		
			51	D1	0009B	CMPL	R1, #90		
00000061	8F		1C	15	000A2	BLEQ	12\$		
			51	D1	000A4	10\$: CMPL	R1, #97		
0000007A	8F		09	19	000AB	BLSS	11\$		
			51	D1	000AD	CMPL	R1, #122		
	30		0A	15	000B4	BLEQ	12\$		
	39		51	D1	000B6	11\$: CMPL	R1, #48		
			1D	19	000B9	BLSS	14\$		
			51	D1	000BB	CMPL	R1, #57		
			18	14	000BE	BGTR	14\$		
			63	D5	000C0	12\$: TSTL	(R3)		0281
	65	00G	09	14	000C2	BGTR	13\$		
	63		8F	9A	000C4	MOVZBL	#RINTES, KHAR		
			01	CE	000C8	MNEGL	#1, (R3)		
	65	04	C2	11	000CB	BRB	9\$		
		04	B2	9A	000CD	13\$: MOVZBL	@4(R2), KHAR		
			A2	D6	000D1	INCL	4(R2)		
			63	D7	000D4	DECL	(R3)		
	50		B7	11	000D6	BRB	9\$		
			03	D0	000D8	14\$: MOVL	#3, R0		
				04	000DB	RET			
00000061	51		65	D0	000DC	15\$: MOVL	KHAR, R1		0286
	8F		51	D1	000DF	CMPL	R1, #97		
			0C	19	000E6	BLSS	16\$		
0000007A	8F		51	D1	000E8	CMPL	R1, #122		
			03	14	000EF	BGTR	16\$		
	51		20	C2	000F1	SUBL2	#32, R1		
04	B0		51	90	000F4	16\$: MOVB	R1, @4(R0)		
		04	A0	D6	000F8	INCL	4(R0)		
		0C	A0	D6	000FB	INCL	12(R0)		
			64	D5	000FE	TSTL	(R4)		0288
			09	14	00100	BGTR	17\$		
	65	00G	8F	9A	00102	MOVZBL	#RINTES, KHAR		
	64		01	CE	00106	MNEGL	#1, (R4)		
			09	11	00109	BRB	18\$		
	65	04	B2	9A	0010B	17\$: MOVZBL	@4(R2), KHAR		
		04	A2	D6	0010F	INCL	4(R2)		
			64	D7	0C112	DECL	(R4)		
			FF34	31	00114	18\$: BRW	4\$		

; Routine Size: 279 bytes, Routine Base: \$CODE\$ + 0000

: 165 0292 1
: 166 0293 1 END
: 167 0294 0 ELUDOM

!End of module

GNAME
V04-000

GNAME - Get name from input string and convert
Module Level Declarations

J 8
16-Sep-1984 00:42:38
14-Sep-1984 13:06:36

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GNAME.BLI;1 Page 7 (4)

PSECT SUMMARY

```

:      Name      Bytes      Attributes
: $CODE$      279 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
:
```

Library Statistics

```

:      File      Total      Symbols      Pages      Processing
:      File      Total      Loaded      Percent      Mapped      Time
: $255$DUA28:[SYSLIB]XPORT.L32;1      590      0      0      252      00:00.2
: $255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1      1248      24      1      86      00:00.3
:
```

COMMAND QUALIFIERS

```

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

```

: Size:      279 code + 0 data bytes
: Run Time:      00:05.7
: Elapsed Time:      00:20.9
: Lines/CPU Min:      3073
: Lexemes/CPU-Min: 16055
: Memory Used: 80 pages
: Compilation Complete
:
```

0342 AH-BT13A-SE
VAX/VMS V4.0

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GETQC
LIS

GNAME
LIS

INDEX
LIS

GLBDAT
LIS

GETLIN
LIS

GETONE
LIS

LAYOUT
LIS

GTABS
LIS

GLNM
LIS

GETQS
LIS

IFIFNE
LIS

GETDD
LIS

GSLU
LIS

LIT
LIS

LIST
LIS

GETNUM
LIS

HEADER
LIS