

NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFFFFFFFFFFFFF
NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFFFFFFFFFFFFF
NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFFFFFFFFFFFFF
NNN		NNN	III	CCC		NNN		NNN	FFF
NNN		NNN	III	CCC		NNN		NNN	FFF
NNN		NNN	III	CCC		NNN		NNN	FFF
NNNNNN		NNN	III	CCC		NNNNNN		NNN	FFF
NNNNNN		NNN	III	CCC		NNNNNN		NNN	FFF
NNNNNN		NNN	III	CCC		NNNNNN		NNN	FFF
NNN	NNN	NNN	III	CCC		NNN	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	NNN	III	CCC		NNN	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	NNN	III	CCC		NNN	NNN	NNN	FFFFFFFFFFFFFF
NNN		NNNNNN	III	CCC		NNN	NNNNNN	NNN	FFF
NNN		NNNNNN	III	CCC		NNN	NNNNNN	NNN	FFF
NNN		NNNNNN	III	CCC		NNN	NNNNNN	NNN	FFF
NNN		NNN	III	CCC		NNN	NNN	NNN	FFF
NNN		NNN	III	CCC		NNN	NNN	NNN	FFF
NNN		NNN	III	CCC		NNN	NNN	NNN	FFF
NNN		NNN	III	CCC		NNN	NNN	NNN	FFF
NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFF
NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFF
NNN		NNN	IIIIIIIIII		CCCCCCCCCCCC	NNN		NNN	FFF

```

CCCCCCCC NN      NN  FFFFFFFF  WW      WW  000000  RRRRRRRR  KK      KK  QQQQQQ
CCCCCCCC NN      NN  FFFFFFFF  WW      WW  000000  RRRRRRRR  KK      KK  QQQQQQ
CC        NN      NN  FF          WW      WW  00      00  RR      RR  KK      KK  QQ      QQ
CC        NNNN     NN  FF          WW      WW  00      00  RR      RR  KK      KK  QQ      QQ
CC        NNNN     NN  FF          WW      WW  00      00  RR      RR  KK      KK  QQ      QQ
CC        NN  NN  NN  FFFFFFFF  WW      WW  00      00  RRRRRRRR  KKKKKK  QQ      QQ
CC        NN  NN  NN  FFFFFFFF  WW      WW  00      00  RRRRRRRR  KKKKKK  QQ      QQ
CC        NN      NNNN  FF          WW      WW  00      00  RR  RR  KK      KK  QQ  QQ  QQ
CC        NN      NNNN  FF          WW      WW  00      00  RR  RR  KK      KK  QQ  QQ  QQ
CC        NN      NN  FF          WWWW   WWWW  00      00  RR      RR  KK      KK  QQ      QQ
CC        NN      NN  FF          WWWW   WWWW  00      00  RR      RR  KK      KK  QQ      QQ
CCCCCCCC NN      NN  FF          WW      WW  000000  RR      RR  KK      KK  QQQQ  QQ
CCCCCCCC NN      NN  FF          WW      WW  000000  RR      RR  KK      KK  QQQQ  QQ

```

```

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
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

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```
1 0001 0 MODULE CNFWORKQ (IDENT = 'V04-000') =
2 0002 1 BEGIN
3 0003 1
4 0004 1
5 0005 1 *****
6 0006 1 *
7 0007 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY   *
8 0008 1 *   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
9 0009 1 *   ALL RIGHTS RESERVED. *
10 0010 1 *
11 0011 1 *   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
12 0012 1 *   ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
13 0013 1 *   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
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17 0017 1 *
18 0018 1 *   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
19 0019 1 *   AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
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22 0022 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
23 0023 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
24 0024 1 *
25 0025 1 *
26 0026 1 *****
27 0027 1
28 0028 1 ++
29 0029 1 FACILITY: DECnet Configurator Module, (NICONFIG)
30 0030 1
31 0031 1 ABSTRACT:
32 0032 1
33 0033 1     This module contains routines to manage the internal
34 0034 1     work queue.
35 0035 1
36 0036 1 ENVIRONMENT:
37 0037 1
38 0038 1     VAX/VMS operating system. unprivileged user mode,
39 0039 1
40 0040 1 AUTHOR: Tim Halvorsen, June 1980
41 0041 1
42 0042 1 Modified by:
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1 Include files
48 0048 1
49 0049 1
50 0050 1 LIBRARY 'SYSS$LIBRARY:STARLET';           ! VAX/VMS common definitions
51 0051 1
52 0052 1 REQUIRE 'SYSS$LIBRARY:UTILDEF';          ! Misc. VMS definitions
53 0228 1
54 0229 1 REQUIRE 'LIB$:CNFWQDEF';                 ! Structure definitions
```

```

: 56 0246 1 |
: 57 0247 1 | Table of contents
: 58 0248 1 |
: 59 0249 1 |
: 60 0250 1 FORWARD ROUTINE
: 61 0251 1     wkq$add_work_item,      ! Add a work item
: 62 0252 1     wkq$do_work_item;      ! Dequeue and execute a work item
: 63 0253 1 |
: 64 0254 1 |
: 65 0255 1 | BUILTIN functions
: 66 0256 1 |
: 67 0257 1 |
: 68 0258 1 BUILTIN
: 69 0259 1     INSQUE,                ! INSQUE instruction
: 70 0260 1     REMQUE;                ! REMQUE instruction
: 71 0261 1 |
: 72 0262 1 |
: 73 0263 1 | OWN storage
: 74 0264 1 |
: 75 0265 1 |
: 76 0266 1 OWN
: 77 0267 1     work_queue:            VECTOR [2]      ! Work queue listhead
: 78 0268 1     INITIAL(work_queue,work_queue),
: 79 0269 1     timed_queue:          VECTOR [2]      ! timed work queue listhead
: 80 0270 1     INITIAL(timed_queue,timed_queue);
: 81 0271 1 |
: 82 0272 1 |
: 83 0273 1 | External routines
: 84 0274 1 |
: 85 0275 1 |
: 86 0276 1 EXTERNAL ROUTINE
: 87 0277 1     CNF$GET_ZVM: ADDRESSING_MODE(GENERAL), ! Allocate storage
: 88 0278 1     CNF$FREE_VM: ADDRESSING_MODE(GENERAL); ! Deallocate storage

```

Sy

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```

: 90 0279 1 GLOBAL ROUTINE wkq$add_work_item (action_routine, arg1, arg2, arg3) =
: 91 0280 1
: 92 0281 1 |---
: 93 0282 1 |
: 94 0283 1 |       This routine adds a single work item to the work queue.
: 95 0284 1 |       A $WAKE is performed for the first work item added.
: 96 0285 1 |
: 97 0286 1 |       Inputs:
: 98 0287 1 |
: 99 0288 1 |       action_routine = Address of routine to call to perform work.
100 0289 1 |       arg1/2/3 = Arguments to be passed to action routine when called.
101 0290 1 |
102 0291 1 |       Outputs:
103 0292 1 |
104 0293 1 |       routine = status code
105 0294 1 |---
106 0295 1
107 0296 2 BEGIN
108 0297 2
109 0298 2 LOCAL
110 0299 2     length,           ! Length of allocate/deallocation
111 0300 2     entry:         REF BBLOCK;      ! Address of work queue entry
112 0301 2
113 0302 2     length = wqe$c_length;          ! Length of a work queue entry
114 0303 2     return_if_error(CNF$GET_ZVM(length,entry)); ! Allocate entry
115 0304 2
116 0305 2     entry [wqe$l_pc] = .action_routine; ! Store address of action routine
117 0306 2     entry [wqe$l_arg1] = .arg1;         ! then store 3 arguments
118 0307 2     entry [wqe$l_arg2] = .arg2;
119 0308 2     entry [wqe$l_arg3] = .arg3;       ! assume all arguments must be given
120 0309 2
121 0310 2     IF INSQUE(.entry, .work_queue [1]) ! Queue entry at tail of list
122 0311 2     THEN
123 0312 2         $WAKE();                     ! If first, wakeup process
124 0313 2
125 0314 2     RETURN true;
126 0315 2
127 0316 1 END;

```

```

.TITLE CNFWORKQ
.IDENT  \V04-000\
.PSECT  $OWNS,NOEXE,2

```

```

00000000' 00000000' 00000 WORK_QUEUE:
      .ADDRESS WORK_QUEUE, WORK_QUEUE      ;
00000000' 00000000' 00008 TIMED_QUEUE:
      .ADDRESS TIMED_QUEUE, TIMED_QUEUE   ;

```

```

.EXTRN  CNF$GET_ZVM, CNF$FREE_VM
.EXTRN  SYSSWAKE

```

```

.PSECT  $CODES,NOWRT,2

```

```

SE          0000 00000          .ENTRY  WKQ$ADD_WORK_ITEM, Save nothing      ; 0279
           08 C2 00002          SUBL2   #8, SP                      ;

```

CNFWORKQ
V04-000

D 6
16-Sep-1984 02:07:44
14-Sep-1984 12:49:54

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFWORKQ.B32;1

Page 4
(3)

04	AE		1C	DO	00005	MOVL	#28, LENGTH	:	0302
			5E	DD	00009	PUSHL	SP	:	0303
		08	AE	9F	0000B	PUSHAB	LENGTH	:	
00000000G	00		02	FB	0000E	CALLS	#2, CNF\$GET_ZVM	:	
	20		50	E9	00015	BLBC	STATUS, 2\$:	
	50		6E	DO	00018	MOVL	ENTRY, R0	:	0305
08	A0	04	AC	7D	0001B	MOVQ	ACTION_ROUTINE, 8(R0)	:	
10	A0	0C	AC	7D	00020	MOVQ	ARG2, T6(R0)	:	0307
0000'	DF		60	0E	00025	INSQUE	(R0), @WORK_QUEUE+4	:	0310
			09	12	0002A	BNEQ	1\$:	
			7E	7C	0002C	CLRQ	-(SP)	:	0312
00000000G	00		02	FB	0002E	CALLS	#2, SYSSWAKE	:	
	50		01	DO	00035	MOVL	#1, R0	:	0314
			04	00038	2\$:	RET		:	0316

; Routine Size: 57 bytes, Routine Base: \$CODE\$ + 0000

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: 129      0317 1 GLOBAL ROUTINE wkq$do_work_item =
: 130      0318 1
: 131      0319 1 |---
: 132      0320 1 |
: 133      0321 1 |       This routine dequeues the next work item to be performed
: 134      0322 1 |       and calls the action routine associated with the item.
: 135      0323 1 |
: 136      0324 1 | Inputs:
: 137      0325 1 |
: 138      0326 1 |       None
: 139      0327 1 |
: 140      0328 1 | Outputs:
: 141      0329 1 |
: 142      0330 1 |       routine = True if successful, false if nothing in queue
: 143      0331 1 |---
: 144      0332 1
: 145      0333 2 BEGIN
: 146      0334 2
: 147      0335 2 LOCAL
: 148      0336 2     length,           ! Length of work queue entry
: 149      0337 2     entry:       REF BBLOCK; ! Address of entry in queue
: 150      0338 2
: 151      0339 2 IF REMQUE(.work_queue [0], entry) ! Remove first entry from queue
: 152      0340 2 THEN
: 153      0341 2     RETURN false; ! If none, return unsuccessful
: 154      0342 2
: 155      0343 2 (.entry [wqe$l_pc])(.entry [wqe$l_arg1],
: 156      0344 2     .entry [wqe$l_arg2], .entry [wqe$l_arg3]); ! Call routine
: 157      0345 2
: 158      0346 2 length = wqe$c_length;
: 159      0347 2 CNF$FREE_VM(length, entry); ! Deallocate entry
: 160      0348 2
: 161      0349 2 RETURN true;
: 162      0350 2
: 163      0351 1 END;

```

```

          SE          0000 0000          .ENTRY WKQ$DO_WORK_ITEM, Save nothing          : 0317
          7E          04 C2 00002        SUBL2 #4, SP          :
          0000'      DF 0F 00005        REMQUE @WORK_QUEUE, ENTRY          : 0339
          22 1D 0000A        BVS 1$          :
          50          6E D0 0000C        MOVL ENTRY, R0          : 0343
          7E          10 A0 7D 0000F      MOVQ 16(R0), -(SP)          : 0344
          0C          A0 DD 00013        PUSHL 12(R0)          : 0343
          08 B0          03 FB 00016      CALLS #3, @8(R0)          :
          04 AE          1C D0 0001A      MOVL #28, LENGTH          : 0346
          08          5E DD 0001E        PUSHL SP          : 0347
          00          AE 9F 00020        PUSHAB LENGTH          :
          00000000G 00      02 FB 00023      CALLS #2, CNF$FREE_VM          :
          50          01 D0 0002A      MOVL #1, R0          : 0349
          04          04 0002D        RET          :
          50          D4 0002E 1$:      CLRL R0          : 0351
          04          04 00030        RET          :

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