

# problem with netperf compiling on Tru64 Unix

**Source:** <http://unix.derkeiler.com/Newsgroups/comp.unix.tru64/2005-10/0031.html>

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Hello,

I've got problem compiling netperf for Tru64...  
I have fresh Tru64 Unix installed. `uname -a` says this:

```
perun.grall.local> uname -a
OSF1 perun.grall.local V5.0 910 alpha
```

I downloaded sourcecode for netperf from:  
<ftp://ftp.netperf.org/netperf/netperf-2.4.1.tar.gz>

..unzipped, untared and then run configure:

```
perun.grall.local> ./configure
checking build system type... alpha-dec-osf(rev.
checking host system type... alpha-dec-osf(rev.
checking target system type... alpha-dec-osf(rev.
checking for a BSD-compatible install... ./install-sh -c
checking whether build environment is sane... yes
checking for gawk... no
checking for mawk... no
checking for nawk... nawk
checking whether make sets $(MAKE)... yes
checking for gcc... no
checking for cc... cc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are using the GNU C compiler... no
checking whether cc accepts -g... yes
checking for cc option to accept ANSI C... none needed
checking for style of include used by make... GNU
checking dependency style of cc... tru64
checking for an ANSI C-conforming const... yes
checking for main in -lm... yes
checking how to run the C preprocessor... cc -E
```

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checking for egrep... grep -E  
checking for ANSI C header files... yes  
checking for sys/wait.h that is POSIX.1 compatible... yes  
checking for sys/types.h... yes  
checking for sys/stat.h... yes  
checking for stdlib.h... yes  
checking for string.h... yes  
checking for memory.h... yes  
checking for strings.h... yes  
checking for inttypes.h... yes  
checking for stdint.h... no  
checking for unistd.h... yes  
checking arpa/inet.h usability... yes  
checking arpa/inet.h presence... yes  
checking for arpa/inet.h... yes  
checking fcntl.h usability... yes  
checking fcntl.h presence... yes  
checking for fcntl.h... yes  
checking limits.h usability... yes  
checking limits.h presence... yes  
checking for limits.h... yes  
checking malloc.h usability... yes  
checking malloc.h presence... yes  
checking for malloc.h... yes  
checking netdb.h usability... yes  
checking netdb.h presence... yes  
checking for netdb.h... yes  
checking netinet/in.h usability... yes  
checking netinet/in.h presence... yes  
checking for netinet/in.h... yes  
checking for stdlib.h... (cached) yes  
checking for string.h... (cached) yes  
checking for strings.h... (cached) yes  
checking sys/ioctl.h usability... yes  
checking sys/ioctl.h presence... yes  
checking for sys/ioctl.h... yes  
checking sys/param.h usability... yes  
checking sys/param.h presence... yes  
checking for sys/param.h... yes  
checking sys/socket.h usability... yes  
checking sys/socket.h presence... yes  
checking for sys/socket.h... yes  
checking sys/time.h usability... yes  
checking sys/time.h presence... yes  
checking for sys/time.h... yes  
checking for unistd.h... (cached) yes  
checking for main in -lsocket... no  
checking for main in -lmach... yes  
checking for an ANSI C-conforming const... (cached) yes  
checking for off\_t... yes  
checking for size\_t... yes

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checking for socklen\_t equivalent... int  
checking for h\_errno declaration in netdb.h... yes  
checking for struct sockaddr\_storage... yes  
checking whether time.h and sys/time.h may both be included... yes  
checking for stdbool.h that conforms to C99... no  
checking for \_Bool... no  
checking for pid\_t... yes  
checking for unistd.h... (cached) yes  
checking vfork.h usability... no  
checking vfork.h presence... no  
checking for vfork.h... no  
checking for fork... yes  
checking for vfork... yes  
checking for working fork... yes  
checking for working vfork... (cached) yes  
checking for stdlib.h... (cached) yes  
checking for unistd.h... (cached) yes  
checking for getpagesize... yes  
checking for working mmap... yes  
checking sys/select.h usability... yes  
checking sys/select.h presence... yes  
checking for sys/select.h... yes  
checking for sys/socket.h... (cached) yes  
checking types of arguments for select... int,fd\_set \*,struct timeval \*  
checking whether setpgrp takes no argument... no  
checking return type of signal handlers... void  
checking for alarm... yes  
checking for bzero... yes  
checking for gethostbyname... yes  
checking for gethrtime... no  
checking for gettimeofday... yes  
checking for inet\_ntoa... yes  
checking for memset... yes  
checking for memcpy... yes  
checking for munmap... yes  
checking for select... yes  
checking for socket... yes  
checking for sqrt... yes  
checking for strcasecmp... yes  
checking for strchr... yes  
checking for strstr... yes  
checking for strtoul... yes  
checking for uname... yes  
checking for getnameinfo... yes  
checking for getaddrinfo... no  
checking for inet\_ntop... yes  
configure: Requesting replacement getaddrinfo/getnameinfo  
checking for sendfile... no  
checking for mpctl... no  
checking for processor\_bind... no  
checking for sched\_setaffinity... no

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```
checking for bind_to_cpu_id... yes
checking whether to include histogram support... no
checking whether to include demo support... no
checking whether to include Unix-domain socket tests... no
checking whether to include DLPI tests... no
checking whether to include XTI tests... no
checking whether to include ICSC-EXS tests... no
checking whether to include SCTP tests... no
checking whether to include paced send (intervals) support... no
checking whether to include initial burst support in _RR tests... no
checking which CPU utilization measurement type to use... "none.
Consider teaching configure about your platform."
configure: creating ./config.status
config.status: creating Makefile
config.status: creating src/Makefile
config.status: creating doc/Makefile
config.status: creating config.h
config.status: config.h is unchanged
config.status: executing depfiles commands
perun.grall.local>
```

Then I ran make:

```
perun.grall.local> make
No suffix list.
make all-recursive
No suffix list.
Making all in src
source='netlib.c' object='netlib.o' libtool=no
depfile='.deps/netlib.Po' tmpdepfile='.deps/netlib.TPo' depmode=tru64
/bin/ksh ./depcomp cc -DHAVE_CONFIG_H -I. -I. -I. -g -c `test
-f 'netlib.c' || echo './'`netlib.c
cc: Warning: missing/getaddrinfo.h, line 149: The redefinition of the
macro "getaddrinfo" conflicts with a current definition because the
replacement lists differ. The redefinition is now in effect.
(macroredef)
#define getaddrinfo my_getaddrinfo
-----^
cc: Error: /usr/include/sys/resource.h, line 97: Invalid statement.
(badstmt)
struct rusage {
^
cc: Error: /usr/include/sys/resource.h, line 155: Invalid statement.
(badstmt)
struct rlimit {
^
cc: Error: /usr/include/sys/resource.h, line 166: Invalid statement.
(badstmt)
struct rusage_dev {
^
cc: Error: /usr/include/sys/resource.h, line 206: Invalid statement.
```

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```
(badstmt)
extern int getpriority __((int, int));
^
cc: Error: /usr/include/sys/resource.h, line 207: Invalid statement.
(badstmt)
extern int setpriority __((int, int, int));
^
cc: Error: /usr/include/sys/resource.h, line 208: Invalid statement.
(badstmt)
extern int setrlimit __((int, struct rlimit *));
^
cc: Error: /usr/include/sys/resource.h, line 210: Invalid statement.
(badstmt)
extern int getrlimit __((int, struct rlimit *));
^
cc: Error: /usr/include/sys/resource.h, line 211: Invalid statement.
(badstmt)
extern int getrusage __((int, struct rusage *));
^
cc: Error: /usr/include/sys/resource.h, line 241: Invalid statement.
(badstmt)
struct profil_args {
^
cc: Error: /usr/include/machine/inst.h, line 43: Invalid statement.
(badstmt)
union alpha_instruction {
^
cc: Error: /usr/include/c_asm.h, line 192: Invalid statement. (badstmt)
    float fasm( const char *,... );
    -----^
cc: Error: /usr/include/c_asm.h, line 193: Invalid statement. (badstmt)
    long asm( const char *,...);
    -----^
cc: Error: /usr/include/c_asm.h, line 194: Invalid statement. (badstmt)
    double dasm( const char *,... );
    -----^
cc: Error: /usr/include/machine/cpuconf.h, line 348: Invalid statement.
(badstmt)
typedef enum {INACTIVE_MEM, INITING_MEM, TESTING_MEM, BAD_MEM}
memtest_t;
^
cc: Error: /usr/include/machine/cpuconf.h, line 348: Missing ";".
(nosemi)
typedef enum {INACTIVE_MEM, INITING_MEM, TESTING_MEM, BAD_MEM}
memtest_t;
-----^
cc: Error: /usr/include/sys/processor.h, line 64: Invalid statement.
(badstmt)
extern int bind_to_cpu(pid_t, u_long, u_long);
^
cc: Error: /usr/include/sys/processor.h, line 65: Invalid statement.
```

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```
(badstmt)
extern int bind_to_cpu_id(pid_t, long, u_long);
^
cc: Error: /usr/include/sys/processor.h, line 66: Invalid statement.
(badstmt)
extern int assign_cpu_to_pset(long, long, long);
^
cc: Error: /usr/include/sys/processor.h, line 67: Invalid statement.
(badstmt)
extern int assign_pid_to_pset(pid_t *, long, long, long);
^
cc: Error: /usr/include/sys/processor.h, line 90: Invalid statement.
(badstmt)
typedef int processorid_t;
^
cc: Error: /usr/include/sys/processor.h, line 111: Invalid statement.
(badstmt)
typedef struct {
^
cc: Error: /usr/include/sys/processor.h, line 140: Invalid statement.
(badstmt)
extern int __sve_p_online __((processorid_t processorid, int
flag));
^
cc: Error: /usr/include/sys/processor.h, line 145: Invalid statement.
(badstmt)
extern int __sve_processor_info __((processorid_t processorid,
^
cc: Error: /usr/include/sys/processor.h, line 148: Invalid statement.
(badstmt)
extern int __sve_processor_bind __((idtype_t idtype, id_t id,
^
cc: Error: /usr/include/sys/resource.h, line 167: In this declaration,
"ru_rusage" has no linkage and is of an incomplete type. (incompnolink)
    struct rusage ru_rusage;
    _____^
cc: Warning: /usr/include/c_asm.h, line 196: There is no function
declaration visible for the identifier "fasm" at the point of this
#pragma intrinsic. (intundfun)
#pragma intrinsic( fasm )
_____^
cc: Warning: /usr/include/c_asm.h, line 197: There is no function
declaration visible for the identifier "asm" at the point of this
#pragma intrinsic. (intundfun)
#pragma intrinsic( asm )
_____^
cc: Warning: /usr/include/c_asm.h, line 198: There is no function
declaration visible for the identifier "dasm" at the point of this
#pragma intrinsic. (intundfun)
#pragma intrinsic( dasm )
_____^
```

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```
cc: Error: /usr/include/machine/cpuconf.h, line 348: In this statement,
"memtest_t" is not declared. (undeclared)
typedef enum {INACTIVE_MEM, INITING_MEM, TESTING_MEM, BAD_MEM}
memtest_t;
-----^
cc: Error: /usr/include/sys/processor.h, line 119: In this statement,
"proc_info_t" is not declared. (undeclared)
} proc_info_t;
__^
*** Exit 1
Stop.
*** Exit 1
Stop.
*** Exit 1
Stop.
perun.grall.local>
```

I am Tru64 newbie :-/ Any clue ? Or is it possible to get binaries of netperf for Tru64 unix (it would be easier way for me) ? I just need to do some network measurement on this machine.

Thank you for any suggestions,  
Vladimir Siman