

1. 3 Make

引き続き make 作業を行った。

1. 3. 1 make includes

以下に実行時のログを示す。

```
> make includes
(cd tools && make simple_unifdef)
gcc -o simple_unifdef -g -O2 -I../.. simple_unifdef.c -lm
rm -f dwut.h
(cat dwut.h.in; tools/simple_unifdef config.h strlcpy.h.in) > dwut.h
chmod a-w dwut.h
mkdir -p /home/trhcs/geta/include/geta
/usr/bin/install -c -c -m 644 dwerrno.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dwut.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 timer.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 bset.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dw.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dcw.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dxr.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dci.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dau.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dwsh.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dwc.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dwsched.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 dwam.h /home/trhcs/geta/include/geta/
/usr/bin/install -c -c -m 644 nlog.h /home/trhcs/geta/include/geta/
(cd wt && make includes)
./mkwth > dwwt.h
mkdir -p /home/trhcs/geta/include/geta
/usr/bin/install -c -c -m 644 dwwt.h /home/trhcs/geta/include/geta/
```

1. 3. 2 make

以下に実行時のログを示す。

make 実行時のログ (1)

```
> make
gcc -g -O2 -I. -I/home/trhcs/geta/include -c strlcpy.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c heapselect.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c merge.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c net.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c sassoc.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c timer.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwerrno.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c nlog.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c bdup.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c nf.c
rm -f libdwut.a
ar q libdwut.a strlcpy.o heapselect.o merge.o net.o sassoc.o timer.o dwerrno.o
nlog.o bdup.o nf.o
ranlib libdwut.a
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwsys.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c sdup.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c ht.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c rawvec.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c readfiles.c
rm -f libdws.a
ar q libdws.a dwsys.o sdup.o ht.o rawvec.o readfiles.o
ranlib libdws.a
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dw.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dcw.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dxr.c
dxr.c: In function `dxr_get_vec_dup':
dxr.c:290: warning: passing arg 3 of `dxr_get_vec_sub' from incompatible pointer
type
dxr.c: In function `dxr_get_vec_sub':
dxr.c:333: warning: assignment discards qualifiers from pointer target type
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dau.c
(cd wt && make )
gcc -g -O2 -I.. -I/home/trhcs/geta/include -c f2c.c
gcc -g -O2 -I.. -I/home/trhcs/geta/include -o f2c f2c.o -lm
./f2c *.f
tools/convwsh
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwsh.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -DMKHGSTBL -c -o mkhgstbl.o hypGsum.c
gcc -o mkhgstbl mkhgstbl.o -lm
./mkhgstbl > hgstbl.h
chmod a-w hgstbl.h
gcc -g -O2 -I. -I/home/trhcs/geta/include -c hypGsum.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c cs.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c alloc.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c cs_isl.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c cs_sl.c

```

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make 実行時のログ (2)

```
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwc.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c pkt.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c pint.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c psym.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dci.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwam.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwsched.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c wstem.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c tutil.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c clist.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c sxhash.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c wwsh.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c zvec_pub.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c bset.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c cm.c
rm -f libdw.a
ar q libdw.a dw.o dcw.o dxr.o dau1.o dwsh.o hypGsum.o cs.o alloc.o cs_isl.o
cs_sl.o dwc.o pkt.o pint.o psym.o dci.o dwam.o dwsched.o wstem.o tutil.o clist.o
sxhash.o wwsh.o zvec_pub.o bset.o cm.o
ranlib libdw.a
mkdir -p /home/trhcs/geta/lib
/usr/bin/install -c -c -m 644 libdwut.a /home/trhcs/geta/lib/
ranlib /home/trhcs/geta/lib/libdwut.a
/usr/bin/install -c -c -m 644 libdws.a /home/trhcs/geta/lib/
ranlib /home/trhcs/geta/lib/libdws.a
/usr/bin/install -c -c -m 644 libdw.a /home/trhcs/geta/lib/
ranlib /home/trhcs/geta/lib/libdw.a
#/usr/bin/install -c -c -m 644 libddw.so /home/trhcs/geta/lib/
gcc -g -O2 -I. -I/home/trhcs/geta/include -c mkdw.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c sched.c
sched.c: In function `resolv_dll':
sched.c:199: warning: assignment discards qualifiers from pointer target type
gcc -g -O2 -I. -I/home/trhcs/geta/include -c cel.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c zvec.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c basename.c
gcc -o mkdw mkdw.o sched.o cel.o zvec.o basename.o -L/home/trhcs/geta/lib -ldw -
ldws -ldwut -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c mkpi.c
gcc -o mkpi mkpi.o -L/home/trhcs/geta/lib -ldw -ldws -ldwut -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwd.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwdserv.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c detache.c
gcc -o dwd dwd.o dwdserv.o cel.o zvec.o basename.o detache.o -
L/home/trhcs/geta/lib -ldw -ldws -ldwut -lm -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwss.c
gcc -o dwss dwss.o basename.o -L/home/trhcs/geta/lib -ldwut -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dwsc.c
gcc -o dwsc dwsc.o basename.o -L/home/trhcs/geta/lib -ldwut -lm
```

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make 実行時のログ (3)

```
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dumpdw.c
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dumptools.c
gcc -o dumpdw dumpdw.o dumptools.o -L/home/trhcs/geta/lib -ldw -ldwut -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c csche.c
rm -f libcsche.so
ld -o libcsche.so -shared csche.o -L/home/trhcs/geta/lib -ldwut
gcc -g -O2 -I. -I/home/trhcs/geta/include -c gtest.c
gcc -o gtest gtest.o dumptools.o basename.o -L/home/trhcs/geta/lib -ldw -ldwut -
lm -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c ssum.c
gcc -o ssum ssum.o basename.o -L/home/trhcs/geta/lib -ldw -ldwut -lm -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c estimz.c
gcc -o estimz estimz.o -L/home/trhcs/geta/lib -ldw -ldwut -lm
gcc -g -O2 -I. -I/home/trhcs/geta/include -c dumpdcx.c
gcc -o dumpdcx dumpdcx.o -L/home/trhcs/geta/lib -ldw -ldwut -lm
for d in ext swam frq/manyo sbin; do (cd $d && make ); done
(cd wam && /usr/bin/perl Makefile.PL)
Checking if your kit is complete...
Looks good
Writing Makefile for wam
(cd wam && make )
mkdir blib
mkdir blib/lib
cp wam.pm blib/lib/wam.pm
AutoSplitting blib/lib/wam.pm (blib/lib/auto/wam)
/usr/bin/perl -I/usr/libdata/perl/5.00503/mach -I/usr/libdata/perl/5.00503
/usr/libdata/perl/5.00503/ExtUtils/xsubpp -typemap
/usr/libdata/perl/5.00503/ExtUtils/typemap wam.xs >xstmp.c && mv xstmp.c wam.c
Please specify prototyping behavior for wam.xs (see perlxs manual)
cc -c -I../.. -I/home/trhcs/geta/include -DVERSION=¥"0.01¥" -
DXS_VERSION=¥"0.01¥" -DPIC -fpic -I/usr/libdata/perl/5.00503/mach/CORE -g -O2
wam.c
In file included from wam.xs:46:
../..../jis.c:43: warning: #warning t==e-1 no toki ni, escape sequence ga nokotte
iruto, return -1 site simau.
mkdir blib/arch
mkdir blib/arch/auto
mkdir blib/arch/auto/wam
Running Mkbootstrap for wam ()
chmod 644 wam.bs
cc -o blib/arch/auto/wam/wam.so -Wl,-E -shared -lperl -lm wam.o -
L/home/trhcs/geta/lib -ldw -ldwut
chmod 755 blib/arch/auto/wam/wam.so
cp wam.bs blib/arch/auto/wam/wam.bs
chmod 644 blib/arch/auto/wam/wam.bs
mkdir blib/man3
Manifying blib/man3/wam.3
(cd wam/samples && chmod +x ptest)
gcc -g -O2 -I.. -I/home/trhcs/geta/include -DJIS_WAM -c wflid.c
gcc -g -O2 -I.. -I/home/trhcs/geta/include -DJIS_WAM -c swam.c
```

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make 実行時のログ (4)、 make install 実行時のログ

```
In file included from swam.c:68:
../jis.c:43: warning: #warning t==e-l no toki ni, escape sequence ga nokotte iruto,
return -l site simau.
swam.c:956: warning: #warning broken
gcc -g -O2 -I.. -I/home/trhcs/geta/include -DJIS_WAM -c sexp.c
gcc -g -O2 -I.. -I/home/trhcs/geta/include -DJIS_WAM -c token.c
gcc -g -O2 -I.. -I/home/trhcs/geta/include -DJIS_WAM -c eval.c
gcc -o wflid wflid.o swam.o sexp.o token.o eval.o ../basename.o -g -O2 -I.. -
I/home/trhcs/geta/include -DJIS_WAM -L/home/trhcs/geta/lib -ldw -ldwut -lm -lm

(make のログ終わり)
```

1. 3. 3 make install

引き続き make install を実行した。
以下に実行時のログを示す。

```
> make install

mkdir -p /home/trhcs/geta/sbin
/usr/bin/install -c -c -s -m 755 mkdw /home/trhcs/geta/sbin/
/usr/bin/install -c -c -s -m 755 mkpi /home/trhcs/geta/sbin/
/usr/bin/install -c -c -m 755 mkau /home/trhcs/geta/sbin/
/usr/bin/install -c -c -m 755 dwd /home/trhcs/geta/sbin/
/usr/bin/install -c -c -s -m 755 dwss /home/trhcs/geta/sbin/
/usr/bin/install -c -c -s -m 755 dwsc /home/trhcs/geta/sbin/
mkdir -p /home/trhcs/geta/bin
/usr/bin/install -c -c -s -m 755 dumpdw /home/trhcs/geta/bin/
/usr/bin/install -c -c -s -m 755 gtest /home/trhcs/geta/bin/
/usr/bin/install -c -c -m 755 libcsche.so /home/trhcs/geta/lib/
for d in ext swam frq/manyo sbin; do (cd $d && make install); done
mkdir -p /home/trhcs/geta/ext
(tar cf - wam/blib) | (cd /home/trhcs/geta/ext && tar xf -)
mkdir -p /home/trhcs/geta/sbin
/usr/bin/install -c -c -m 755 -s wflid /home/trhcs/geta/sbin/
mkdir -p /home/trhcs/geta/frqs/manyo
install -c frqs /home/trhcs/geta/frqs/manyo/
install -c ttls /home/trhcs/geta/frqs/manyo/
install -c part1.frq /home/trhcs/geta/frqs/manyo/
install -c part2.frq /home/trhcs/geta/frqs/manyo/
install -c part1.ttl /home/trhcs/geta/frqs/manyo/
install -c part2.ttl /home/trhcs/geta/frqs/manyo/
mkdir -p /home/trhcs/geta/etc
mkdir -p /home/trhcs/geta/sbin
install -c sched.conf /home/trhcs/geta/etc/
#install -c sched.conf.static /home/trhcs/geta/etc/
install -c sup.def /home/trhcs/geta/etc/
install -c dwdctl /home/trhcs/geta/sbin/
chmod +x jma.sh
```

1. 4 分散環境(PCクラスタ)で利用するための環境整備

インストール作業に引き続き、分散環境(PCクラスタ)で利用するための環境整備を行った。

1. 4. 1 hosts ファイルの作成

最初に分散環境を指定するファイル(カスタマイゼーション)を以下のように作成し、\$GETAROOT/etc/hosts.vc に保存した。

\$GETAROOT/etc/hosts.vc の内容

```
127.0.0.1:6700:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6700
192.168.1.11:6710:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6710
192.168.1.12:6720:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6730
192.168.1.13:6730:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6730
192.168.1.14:6740:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6740
192.168.1.14:6741:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6741
192.168.1.13:6731:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6731
192.168.1.12:6721:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6721
192.168.1.11:6711:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6711
127.0.0.1:6701:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6701
```

1. 4. 2 連想子ノードでのディレクトリ作成

引き続き連想子ノードでのディレクトリ作成を行うために \$GETAROOT/sbinディレクトリにて ./dwdctl mkdir vc を実行した。

```
> cd $GETAROOT/sbin  
  
> ./dwdctl mkdir vc  
**** 127.0.0.1:6700:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6700  
**** 192.168.1.11:6710:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6710  
**** 192.168.1.12:6720:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6730  
**** 192.168.1.13:6730:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6730  
**** 192.168.1.14:6740:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6740  
**** 192.168.1.14:6741:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6741  
**** 192.168.1.13:6731:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6731  
**** 192.168.1.12:6721:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6721  
**** 192.168.1.11:6711:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6711  
**** 127.0.0.1:6701:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6701
```

1. 4. 3 検索実行モジュールの配布 (dwdctl dist)

検索実行モジュールを子ノードに配布するために ./dwdctl dist vc を実行した。

```
> ./dwdctl dist vc  
**** 127.0.0.1:6700:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6700  
**** 192.168.1.11:6710:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6710  
**** 192.168.1.12:6720:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6730  
**** 192.168.1.13:6730:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6730  
**** 192.168.1.14:6740:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6740  
**** 192.168.1.14:6741:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6741  
**** 192.168.1.13:6731:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6731  
**** 192.168.1.12:6721:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6721  
**** 192.168.1.11:6711:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6711  
**** 127.0.0.1:6701:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6701
```

1.4.4 検索デーモンの立ち上げ (dwdctl start)

検索デーモンを立ち上げるために ./dwdctl start vc を実行した。

```
> ./dwdctl start vc
**** 127.0.0.1:6700:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6700
**** 192.168.1.11:6710:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6710
**** 192.168.1.12:6720:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6730
**** 192.168.1.13:6730:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6730
**** 192.168.1.14:6740:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6740
**** 192.168.1.14:6741:$GETAROOT/sbin/dwd:$GETAROOT/net/vc4.6741
**** 192.168.1.13:6731:$GETAROOT/sbin/dwd:$GETAROOT/net/vc3.6731
**** 192.168.1.12:6721:$GETAROOT/sbin/dwd:$GETAROOT/net/vc2.6721
**** 192.168.1.11:6711:$GETAROOT/sbin/dwd:$GETAROOT/net/vc1.6711
**** 127.0.0.1:6701:$GETAROOT/sbin/dwd:$GETAROOT/net/vc0.6701
```

親サーバと全ての子サーバにて検索デーモンが立ち上がったことを ps コマンドと ssh コマンドを用いて確認した。

```
> ps auxwww | grep dwd
trhcs 26945 0.0 0.0 4324 472 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc0.6700 6700
trhcs 27013 0.0 0.0 3528 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc0.6701 6701

> ssh vclaire1 ps auxwww | grep dwd
trhcs 15809 0.0 0.0 3780 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc1.6710 6710
trhcs 15828 0.0 0.0 2336 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc1.6711 6711

> ssh vclaire2 ps auxwww | grep dwd
trhcs 15723 0.0 0.0 3036 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc2.6730 6720
trhcs 15742 0.0 0.0 3772 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc2.6721 6721

> ssh vclaire3 ps auxwww | grep dwd
trhcs 18517 0.0 0.0 3588 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc3.6730 6730
trhcs 18536 0.0 0.0 3988 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc3.6731 6731

> ssh vclaire4 ps auxwww | grep dwd
trhcs 18972 0.0 0.0 2924 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc4.6740 6740
trhcs 18989 0.0 0.0 2920 468 ? Ss 17:54 0:00
/home/trhcs/geta/sbin/dwd /home/trhcs/geta/net/vc4.6741 6741
```

2. 検索用データ(WAM)の作成

PubMed 2007年版全件 (16,097,775件)を検索対象として、GETA の検索用バイナリデータ形式である WAM を作成した。

以下WAM作成時のログを示す。

wam 作成時のログ (1)

```

sched-conf: /home/trhcs/geta/etc/sched.conf
compress: Z36
cmode: 0
medline-dic.new
load_config: loading hosts
8, 8, HOSTS
libcsche.so, mkrhost = 0x8569db, default
[medline07n0001.frq,
warning: empty document: [!"2p]
warning: empty document: [!"2z]
warning: empty document: [!"3C]
warning: empty document: [!"3T]
warning: empty document: [!"3^]
warning: empty document: [!"3s]
warning: empty document: [!"3z]
2164130] [medline07n0002.frq, 1926961]
[medline07n0003.frq, 1997830] [medline07n0004.frq, 1989818]
[medline07n0005.frq,
warning: empty document: [!/s[]
1991359] [medline07n0006.frq, 2017493]
[medline07n0007.frq,
warning: empty document: [!7G[]
2020578] [medline07n0008.frq,
warning: empty document: [!9{Z]
2007246]
[medline07n0009.frq, 2021959] [medline07n0010.frq, 1955691]
[medline07n0011.frq, 2049067] [medline07n0012.frq,
warning: empty document: [!Fc&]
2030131]
[medline07n0013.frq, 2010186] [medline07n0014.frq, 2096870]
[medline07n0015.frq, 2084088] [medline07n0016.frq, 2058246]
[medline07n0017.frq,
warning: empty document: [!Yud]
2060883] [medline07n0018.frq, 2104539]
[medline07n0019.frq, 2042354] [medline07n0020.frq, 2061100]
[medline07n0021.frq, 2111522] [medline07n0022.frq, 2138460]
[medline07n0023.frq, 2056925] [medline07n0024.frq, 2127582]
[medline07n0025.frq, 2046173] [medline07n0026.frq, 2109699]
[medline07n0027.frq, 2124060] [medline07n0028.frq, 2143122]
[medline07n0029.frq, 2164791] [medline07n0030.frq, 2152173]
[medline07n0031.frq, 2130705] [medline07n0032.frq, 2201584]
[medline07n0033.frq, 2145056] [medline07n0034.frq,
warning: empty document: [!"56f]
2185704]
[medline07n0035.frq, 2258211] [medline07n0036.frq, 2301392]
[medline07n0037.frq, 2309271] [medline07n0038.frq, 2226098]
[medline07n0039.frq, 2239855] [medline07n0040.frq, 2260797]
[medline07n0041.frq, 2253872] [medline07n0042.frq, 2276733]
[medline07n0043.frq, 2305298] [medline07n0044.frq,
```

wam 作成時のログ (2)

```
warning: empty document: ["W8]
2302467]
[medline07n0045. frq, 2261739] [medline07n0046. frq, 2277939]
[medline07n0047. frq,
warning: empty document: ["v/]
2266581] [medline07n0048. frq, 2325163]
[medline07n0049. frq,
warning: empty document: ["hr^]
2198321] [medline07n0050. frq, 2543778]
[medline07n0051. frq, 2740196] [medline07n0052. frq, 2734496]
[medline07n0053. frq, 2597793] [medline07n0054. frq, 2632465]
[medline07n0055. frq, 2701788] [medline07n0056. frq, 2736021]
[medline07n0057. frq, 2831231] [medline07n0058. frq,
warning: empty document: [#&/y]

warning: empty document: [#&d3]

warning: empty document: [#]L2]
2456841]
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[medline07n0061. frq, 2400937] [medline07n0062. frq, 2642823]
[medline07n0063. frq, 2695107] [medline07n0064. frq, 2420631]
[medline07n0065. frq, 2224729] [medline07n0066. frq,
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2272488]
[medline07n0067. frq, 2398568] [medline07n0068. frq, 2363653]
[medline07n0069. frq, 2424893] [medline07n0070. frq,
warning: empty document: [#Qqv]
2330376]
[medline07n0071. frq, 2250815] [medline07n0072. frq, 2401609]
[medline07n0073. frq,
warning: empty document: [#Z5D]

warning: empty document: [#Z1%]
2307371] [medline07n0074. frq,
warning: empty document: [#]:0]
2383964]
[medline07n0075. frq, 2406188] [medline07n0076. frq, 2446662]
[medline07n0077. frq, 2249252] [medline07n0078. frq, 2278570]
[medline07n0079. frq, 2360267] [medline07n0080. frq, 2355148]
[medline07n0081. frq, 2381853] [medline07n0082. frq, 2404832]
[medline07n0083. frq, 2350773] [medline07n0084. frq, 2300260]
[medline07n0085. frq, 2332939] [medline07n0086. frq, 2381211]
[medline07n0087. frq, 2345491] [medline07n0088. frq, 2375359]
[medline07n0089. frq, 2413565] [medline07n0090. frq,
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warning: empty document: [$6oS]
2422144]
```

wam 作成時のログ (3)

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2354085]
[medline07n0095. frq, 2421532] [medline07n0096. frq, 2404427]
[medline07n0097. frq, 2458489] [medline07n0098. frq, 2354445]
[medline07n0099. frq,
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warning: empty document: [$U*W]
2331618] [medline07n0100. frq, 2357012]
[medline07n0101. frq, 2404666] [medline07n0102. frq, 2402018]
[medline07n0103. frq, 2434377] [medline07n0104. frq, 2623596]
[medline07n0105. frq, 2394265] [medline07n0106. frq, 2357777]
[medline07n0107. frq, 2410930] [medline07n0108. frq, 2411720]
[medline07n0109. frq, 2432035] [medline07n0110. frq, 2473997]
[medline07n0111. frq, 2421108] [medline07n0112. frq,
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warning: empty document: [%#cy]
2516311]
[medline07n0113. frq, 2468755] [medline07n0114. frq, 2471088]
[medline07n0115. frq, 2528236] [medline07n0116. frq, 2478418]
[medline07n0117. frq,
warning: empty document: [%4%$]
2523915] [medline07n0118. frq, 2564794]
[medline07n0119. frq, 2773275] [medline07n0120. frq, 2492493]
[medline07n0121. frq,
warning: empty document: [%@F+]
2551032] [medline07n0122. frq,
warning: empty document: [%F/W]
2545372]
[medline07n0123. frq, 2521581] [medline07n0124. frq, 2593612]
[medline07n0125. frq,
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2636652] [medline07n0126. frq, 2888134]
[medline07n0127. frq, 7897006] [medline07n0128. frq, 9706838]
[medline07n0129. frq, 8322889] [medline07n0130. frq, 10647983]
[medline07n0131. frq,
warning: empty document: [%bK-]
10220521] [medline07n0132. frq, 8961743]
[medline07n0133. frq, 8636254] [medline07n0134. frq, 7614536]
[medline07n0135. frq,
warning: empty document: [%rU]

warning: empty document: [%r]m]
8423434] [medline07n0136. frq, 9825571]
[medline07n0137. frq, 10034091] [medline07n0138. frq, 10840507]
[medline07n0139. frq, 9388821] [medline07n0140. frq,
```

wam 作成時のログ (4)

```
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10374645]
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[medline07n0143. frq, 7439496] [medline07n0144. frq,
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10586311]
[medline07n0145. frq, 10540148] [medline07n0146. frq, 8290512]
[medline07n0147. frq,
warning: empty document: [%<GG]
8312655] [medline07n0148. frq, 8696533]
[medline07n0149. frq, 8053246] [medline07n0150. frq, 7862192]
[medline07n0151. frq, 6817080] [medline07n0152. frq, 8745100]
[medline07n0153. frq, 8846592] [medline07n0154. frq, 8498325]
[medline07n0155. frq, 8783543] [medline07n0156. frq, 8367809]
[medline07n0157. frq, 8847097] [medline07n0158. frq,
warning: empty document: [% ne]
8487553]
[medline07n0159. frq, 8913167] [medline07n0160. frq, 7745916]
[medline07n0161. frq, 8625452] [medline07n0162. frq, 9212733]
[medline07n0163. frq, 9802450] [medline07n0164. frq, 8955950]
[medline07n0165. frq,
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warning: empty document: [%z' 0]
10173029] [medline07n0166. frq, 9046774]
[medline07n0167. frq, 9098267] [medline07n0168. frq,
warning: empty document: [% $dc]
8839710]
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[medline07n0171. frq, 9414101] [medline07n0172. frq,
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9660785]
[medline07n0173. frq,
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warning: empty document: [% ' 7=:]
9225022] [medline07n0174. frq, 10786012]
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[medline07n0191. frq, 10586182] [medline07n0192. frq, 11146299]
[medline07n0193. frq, 11537300] [medline07n0194. frq, 10316578]
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wam 作成時のログ (5)

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[medline07n0207. frq, 9825044] [medline07n0208. frq,
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14710699]
[medline07n0209. frq, 14379869] [medline07n0210. frq, 13099970]
[medline07n0211. frq, 13834899] [medline07n0212. frq, 14212732]
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[medline07n0219. frq, 13849234] [medline07n0220. frq, 14410404]
[medline07n0221. frq,
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warning: empty document: [(zRd]
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[medline07n0225. frq, 13187589] [medline07n0226. frq, 12807751]
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[medline07n0231. frq, 14072211] [medline07n0232. frq, 13279567]
[medline07n0233. frq, 14160576] [medline07n0234. frq, 13512206]
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[medline07n0239. frq, 11027707] [medline07n0240. frq,
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[medline07n0243. frq,
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14027940] [medline07n0244. frq, 13912765]
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[medline07n0247. frq,
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13710431] [medline07n0248. frq,
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12515667]
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```

wam 作成時のログ (6)

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[medline07n0273. frq,
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16771597] [medline07n0286. frq, 16147041]
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15014264]
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17260084] [medline07n0298. frq, 16575421]
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[medline07n0303. frq,
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17744029] [medline07n0304. frq,
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warning: empty document: [+y.0]

warning: empty document: [+yT%]
17649339]
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warning: empty document: [, )¥D]
17378790]
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```

wam 作成時のログ (7)

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warning: empty document: [, T+D]
18122957]
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17913582] [medline07n0340. frq,
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warning: empty document: [.#'!]
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wam 作成時のログ (8)

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19865229] [medline07n0398. frq, 18719578]
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