CoCoALib - Support #1263

Tidy CoCoALib test directory

26 Mar 2019 16:44 - John Abbott

Status:	Resolved	Start date:	26 Mar 2019
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	80%
Category:	Tidying	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99880	Spent time:	4.35 hours

Description

I have done some cleaning and have noticed some files called test-*.C in the test directory which are not listed in the Makefile. We should either add them to the list in the Makefile, or remove them from the directory...

History

#1 - 26 Mar 2019 16:47 - John Abbott

- Status changed from New to In Progress
- % Done changed from 0 to 10

The files I have are:

test-Dynamic1.C
test-F5.C
test-implicit1.C
test-implicit2.C
test-implicit3.C
test-JBMill.C
test-OpenMath2.C
test-PBMill.C
test-RingTwinFloat3.C
test-TmpPartialMorseBetti.C

I guess that test-F5.C should just be eliminated, along with all the F5 code in CoCoALib?

#2 - 29 Apr 2019 13:57 - John Abbott

I have noticed that there some tests which run quickly (e.g. less than 0.01s on my computer), but the compilation time is considerably longer (e.g. around 0.7s on my computer).

It may make some sense to condense several tests into a single file in the hope that the compilation time for the single file is rather less than that for the several small files.

The current situation is:

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- make executables takes about 105s on my computer
- make check (after compiling the executables) takes about 15s on my computer

That is: almost 90% of the time is for compilation and linking. I would hope that we can make compilation time about the same length as execution time... (am I too optimistic?)

#3 - 03 May 2019 14:05 - John Abbott

I have just checked that running **all** test-bugNNN executables takes about 0.03s on my computer. Since these files are "miscellaneous", I see no real objection against combining them into one larger test.

Compiling all these files took about 15s (roughly 1.5s per file)

#4 - 13 Sep 2019 11:30 - John Abbott

I added a new "exbug" to one of the test-bugN.C files, and noticed that it was quite a nuisance having to add all the appropriate include directives. So, I suggest that if we do opt to combine several exbugs into a single file then we might as well simply include the combined header file for CoCoALib -- I think this is justifiable since the tests are likely to cover many different areas of CoCoALib.

The structure I used in my one experiment is the following:

```
#include "CoCoA/library.H

void exbug123()
{
    ...
}

void exbug456()
{
    ...
}

void program()
{
    GlobalManager CoCoAFoundations;
    exbug423();
    exbug456();
}
```

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#5 - 13 Sep 2019 11:30 - John Abbott

- Related to Support #1311: THINGS TO DO IN GENOVA September 2019 added

#6 - 25 Sep 2019 14:28 - John Abbott

Anna approves of merging the exbugs into a single file, and to including CoCoA/library.H.

Do this (soon!)

#7 - 25 Sep 2019 14:28 - John Abbott

- Assignee set to John Abbott
- % Done changed from 10 to 20

#8 - 27 Sep 2019 17:28 - Anna Maria Bigatti

- Subject changed from Tidy test directory to Tidy CoCoALib test directory

#9 - 30 Sep 2019 19:32 - John Abbott

- % Done changed from 20 to 50

I have transferred test-bugN into test-bug1 for N=6,7,8,9. So far, so good.

#10 - 17 Oct 2019 23:27 - John Abbott

- % Done changed from 50 to 60

I have merged several tests in the series test-NumTheory and test-SparsePolyRing into fewer files.

I have preferred not to merge into one very big file, and hope that I have found a reasonable compromise.

I have checked in.

SPEED CHECK compilation of executables took 104s (real), 94s (user). I had hoped for a bigger difference (but maybe there are some new test files now?)

SPEED CHECK compilation of all test-bugNNN took about 4.7s (real), 4.2s (user). That is definitely better.

#11 - 09 Jan 2020 12:28 - John Abbott

- Related to Support #1387: John's visit Feb 2020 added

#12 - 12 Feb 2020 15:49 - John Abbott

- % Done changed from 60 to 70

I have merged test-bug5 into test-bug2 and test-bug4 into test-bug3.

SPEED CHECK compilation of all test-bugNNN took about 4.0s (real), 3.7s (user). A bit better.

#13 - 12 Feb 2020 15:53 - John Abbott

- Target version changed from CoCoALib-0.99700 to CoCoALib-0.99800

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#14 - 13 Feb 2020 13:57 - John Abbott

- Related to deleted (Support #1387: John's visit Feb 2020)

#15 - 14 Feb 2020 10:51 - John Abbott

- Related to deleted (Support #1311: THINGS TO DO IN GENOVA September 2019)

#16 - 25 Sep 2020 15:16 - John Abbott

- Status changed from In Progress to Resolved
- % Done changed from 70 to 80

I have now merged all "exbugs" into a single file called test-exbugs.C (with corr expected output in test-exbugs.out).

SPEED CHECK: compilation took 108s real, 97s user (a bit slower... why?). All tests ran in just less than 15s. **SPEED CHECK** compilation of test-exbugs.C took 2.0s (that is faster)

#17 - 09 Oct 2020 15:18 - John Abbott

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99850

#18 - 07 Mar 2023 20:49 - John Abbott

- Target version changed from CoCoALib-0.99850 to CoCoALib-0.99880

It would be nice to close this issue... I have decided to postpone it, since it likely requires some discussion.

I did notice that test-TmpPartialMorseBetti.C seems to compile and run fine. Should we activate it?

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