

## CoCoA-5 - Feature #903

### New function CallOnGroebnerFanIdeals: call function on GFan ideals

04 Jul 2016 11:43 - Anna Maria Bigatti

<b>Status:</b>	Closed	<b>Start date:</b>	04 Jul 2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Anna Maria Bigatti	<b>% Done:</b>	100%
<b>Category:</b>	CoCoA-5 function: new	<b>Estimated time:</b>	4.00 hours
<b>Target version:</b>	CoCoA-5.2.0 spring 2017	<b>Spent time:</b>	3.55 hours
<b>Description</b>			
The function GFanIdeals (was AllReducedGroebnerBases) has a very big output. Usually one needs to run a function along the GFan (i.e. len of GBasis, max degree in GBasis..) which would take far less memory.  Write a similar function which calls a given function on all GBases. How to call this new function? What should it do exactly: return? print?			
<b>Related issues:</b>			
Related to CoCoALib - Feature #780: GroebnerFan/ExternalLib-GFan: improve pac...		<b>In Progress</b>	<b>24 Sep 2015</b>
Related to CoCoALib - Feature #762: ExternalLib-GFan: first prototype		<b>Closed</b>	<b>28 Aug 2015</b>
Related to CoCoA-5 - Design #917: CallOnGroebnerFanIdeals: better to use an i...		<b>New</b>	<b>31 Aug 2016</b>
Related to CoCoA-5 - Support #973: GroebnerFanIdeals: verbosity and output style		<b>Closed</b>	<b>17 Nov 2016</b>
Related to CoCoA-5 - Support #977: "universal denominator" (related with Groe...		<b>In Progress</b>	<b>17 Nov 2016</b>

### History

#### #1 - 04 Jul 2016 11:44 - Anna Maria Bigatti

- Related to Feature #780: GroebnerFan/ExternalLib-GFan: improve package added

#### #2 - 04 Jul 2016 11:44 - Anna Maria Bigatti

- Related to Feature #762: ExternalLib-GFan: first prototype added

#### #3 - 10 Oct 2016 13:40 - Anna Maria Bigatti

- Related to Design #917: CallOnGroebnerFanIdeals: better to use an iterator (or a "stream") added

#### #4 - 10 Oct 2016 13:44 - Anna Maria Bigatti

- Status changed from New to Feedback

- % Done changed from 0 to 90

- Estimated time set to 4.00 h

added CallOnGroebnerFanIdeals. Works fine.

Philosophically a stream would be cleaner, but no time to think about it.

#### #5 - 10 Oct 2016 14:34 - Anna Maria Bigatti

- Subject changed from New function: call function on GFan ideals to New function CallOnGroebnerFanIdeals: call function on GFan ideals

cvs-ed manual

#### #6 - 17 Nov 2016 21:29 - Anna Maria Bigatti

- Related to Support #973: GroebnerFanIdeals: verbosity and output style added

#### #7 - 21 Nov 2016 09:48 - Anna Maria Bigatti

- Related to Support #977: "universal denominator" (related with GroebnerFanIdeals) added

**#8 - 26 Apr 2017 19:04 - Anna Maria Bigatti**

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

Updated manual (after cleaned up example in GBForEveryone paper).  
closing.