

CoCoALib - Design #1800

Conversion from SmallPrime to UNSIGNED long?

25 Mar 2024 17:47 - John Abbott

Status:	In Progress	Start date:	25 Mar 2024
Priority:	Normal	Due date:	
Assignee:		% Done:	10%
Category:	Tidying	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99880	Spent time:	0.30 hour
<div>Description</div> <p>Currently there is an "implicit" conversion from SmallPrime to signed long. Should the conversion instead be to unsigned long? SmallPrime can never produce a negative value. One or two places in the code may be a little neater if the conversion were to unsigned long. This does mean relaxing the refusal to use unsigned values...</p>			

History

#1 - 25 Mar 2024 17:49 - John Abbott

We have long tried to avoid unsigned values because they can cause inconvenient, silent, automatic conversions.
But then I realised that overflow for signed values is "undefined behaviour" (which we must avoid).
I am increasingly tempted to relax the "veto" on unsigned values...

Discuss. Decide.

#2 - 15 Apr 2024 10:09 - John Abbott

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

I am quite tempted just to try changing the automatic conversion, but this should probably also be done with some other changes perhaps related to redesign of MachineInt?