

# Re: Existence of proof verifiers: A comedy

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- *From:* Charlie-Boo <[shymathguy@xxxxxxxxxx](mailto:shymathguy@xxxxxxxxxx)>
  - *Date:* Sun, 4 May 2008 07:28:58 -0700 (PDT)
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On May 4, 3:08 am, Jan Burse <[janbu...@xxxxxxxxxxxxx](mailto:janbu...@xxxxxxxxxxxxx)> wrote:

Charlie-Boo schrieb:

What I am saying is that DataBase Query Processing IS a problem of using Logic, as is Program Synthesis and even Theory of Computation. They talk about the obvious role of AND, OR, NOT in queries, but never exploited that. When you say it is off-topic. that is pointing out that nobody came up with a general logical solution that uses Predicate Calculus for the wff and Rules of Inference to reduce that down to ANY file with any number of levels of hierarchy and any logical expression at each level.

It seems that the deductive database/descriptive complexity developments slipped your attention.

I am not saying that there is a wide base using these approaches. But the approaches are already there.

The problem is, that not so many exploits are possible by logic. You can view FOL as a language, similar to SQL. So when you change the language in the interface to a database, this doesn't mean that you automatically get a better execution.

What is done down in the execution, can be mostly viewed as trading space for time. Thus when you have an index, you are using more space, but you gain some execution time.

What would be exactly the great gain by using FOL?

You are able to model your files and use them in place, including files that do not follow the simple scheme of "main file pluse indexes." You can apply the rules of logic to those FOL wffs. It

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unites several branches of Mathematics/Computer Science: Program Synthesis, Database Query Processing, even Theory of Computation.

C-B

Best Regards

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