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Comments for the Author:
This is an interesting and important paper. I would be very happy to
have something like this in the literature as something to point to
as justification for my own work. The commercial software perspective
is particularly valuable as an alternative to the academic view
(that Risch does it all). Also, many people, e.g. Jacques Carette,
have been saying informally for years that indefinite integration
is a game for academics, but definite integration is the really
hard problem and where all the bugs lie. It would be good to have this
in print.

However, the paper is too much a straight conversion of the slides
of a talk into a printed format. I have annotated the PDF with numerous
comments. I hope that Daniel will have the time, and patience, to rework
the material into a form of lasting value to us all. The CCA readers
will have a good level of competence for the technical details,
and so each example could be enlarged to include a technical comment.

Let me take a specific example. The paper contains the example of
integrating
(7*x^13+10*x^8+4*x^7-7*x^6-4*x^3-4*x^2+3*x+3)/(x^14-2*x^8-2*x^7-2*x^4-4
*x^3-x^2+2*x+1)
This is integrated once by Mma without intervention and once after an
Expand.
The first result is 2 lines, the second 1.5 pages.
The example is then dropped and the next example taken up.
We are left wondering what just happened.
We can take the time to discover that the denominator splits into two
factors
of degree 7 (using an extension of sqrt(2) ) and then the integral
becomes
f'/f + g'/g, which integrates to two logs (which can be combined as it
happens).
It would be nice if the explanation were included in the paper.
It only takes 2 lines.
Next, the example does not need to be so large to make the point.
Once the trick is uncovered, it is easy to produce a shorter example.
For example (6*x^5+x^4-14*x^3-17*x^2+3)/(x^6-4*x^4-6*x^3-x^2+2*x+1)
shows exactly the same behaviour, but the numerator contains 5 terms
compared with 8 before.
Therefore the output after the Expand will probably be confined to 1
page,
rather than 1.5 pages.
That will be quite enough to convince the reader, while saving a few
trees.

I hope these comments plus the annotated file will be enough for Daniel
to re-submit an even better version soon.
I hope he does not take as long as I did to file this review. Sorry
Daniel.

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