

Connectivity Updates in Maple 2025

DocumentTools:-RunWorksheet

- [DocumentTools:-RunWorksheet](#) can now execute Maple Flow documents. Values can be passed into the Maple Flow document by overriding the first assignment to the given variable, and the returned result is the value computed in the last math container in the document. In addition the `output` option allows retrieving other values computed in the document.
- The example worksheet [RunWorksheetExample.flow](#) contains the following math containers:

`a := 1`

`b := 2a`

`c := 3`

`a + b^2 + c^3`

- This example can be executed as follows:

```
> flowfile := FileTools:-JoinPath( ["example", "RunWorksheetExample.  
flow"], base=datadir );  
  
> DocumentTools:-RunWorksheet( flowfile );  
32 (1)
```

```
> DocumentTools:-RunWorksheet( flowfile, [a=-1,b=4] );  
42 (2)
```

```
> DocumentTools:-RunWorksheet( flowfile, [a=2], outputs=[b,c] );  
[b=4, c=3] (3)
```

- For more about Maple Flow, see [about,MapleFlow](#).

CodeGeneration

- The [options supported by CodeGeneration translators](#) now includes a new `source` option, which permits a variety of new sources of Maple code to be translated by CodeGeneration.
- Specifying `source=component` indicates that the input expression is a string referencing a Maple [embedded component](#) such as a Code Edit Region, the content of

which is the Maple code to be translated.

```
1 Primes := [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47];
2 S := 0:
3 for p in Primes do S += 1/p; end do;
4
```

```
> CodeGeneration:-Python("CodeEditRegion1", source=component);
```

- Specifying `source=inert` specifies that the input is a Maple [inert representation](#) of the form produced by [ToInert](#) and accepted by [FromInert](#) which encodes the code to be translated.

This allows such inert expressions to be constructed and provided to CodeGeneration without risk of accidental evaluation.

```
> statseq := _Inert_STATSEQ(_Inert_ASSIGN(_Inert_NAME("x"),
  _Inert_INTPOS(1)), _Inert_ASSIGN(_Inert_NAME("y"), _Inert_INTPOS
  (2)), _Inert_ASSIGN(_Inert_NAME("z"), _Inert_SUM(_Inert_NAME("x"),
  _Inert_NAME("y"))));
```

```
statseq := _Inert_STATSEQ(_Inert_ASSIGN(_Inert_NAME("x"),_Inert_INTPOS(1)),      (4)
  _Inert_ASSIGN(_Inert_NAME("y"),_Inert_INTPOS(2)),
  _Inert_ASSIGN(_Inert_NAME("z"),_Inert_SUM(_Inert_NAME("x"),
  _Inert_NAME("y"))))
```

```
> CodeGeneration:-Python(statseq);
```

```
x = 1
y = 2
z = x + y
```

Markdown

- As of this version, Maple has a Markdown parser integrated. Markdown is a lightweight document formatting language. The parser can be used by invoking the [Worksheet:-FromMarkdown](#) command.

```
> with(Worksheet):
```

```
> FromMarkdown("This is some *markdown*.", output = insert);
```

```
> file := FileTools:-JoinPath(["example", "markdown.md"], ':-base' =
  ':-datadir');
```

```
> line := FileTools:-Text:-ReadLine(file);  
  
> while line <> NULL do  
    printf("%s\n", line);  
    line := FileTools:-Text:-ReadLine(file);  
end do;  
  
> FileTools:-Text:-Close(file);
```

- The following command will display the result as a new worksheet.

```
> FromMarkdown(file, output=display);
```