The parallel package

Masaki Waga

This is a SATySFI package providing typesetting of two column texts in parallel. This package is inspired by the LATEX package with the same name. This is the official repository.

1. Installation

You can install SATySFI parallel with opam and Satyrographos:

```
opam install satysfi-parallel
```

You can also tangle parallel.satyh from parallel.org using GNU Emacs by typing C-c C-v t (or equivalently, M-x org-babel-tangle) after opening parallel.org. Otherwise, you can tangle from command line as follows:

```
emacs --batch --eval "(require 'org)" --eval '(org-babel-tangle-file
"$<")'</pre>
```

2. Command

The parallel package provides only +parallel command. The signature of +parallel is as follows.

```
direct +parallel : [float?; float?; block-text; block-text] block-cmd
```

The first and the second arguments of +parallel are the float values representing the ratios of the left and the right columns, respectively. These values are optional. The third and the forth arguments of +parallel are the contents of the left and the right columns, respectively.

3. Examples

The following shows a small working example of parallel package.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

```
}
> <
+p {
```

}

ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。 ぞうの卵はおいしいぞう。

— 2 **—**

```
>
>
```

You can also specify the ratios of the columns as follows. We note that their sum should be smaller than 1.

```
@require: stdja
@import: ./parallel

StdJa.document (|
   title = {Example usage of parallel};
   author = {Masaki Waga};
   show-title = true;
   show-toc = false;
|) '<
    +parallel ?:(0.7) ?:(0.28) <
    +p {</pre>
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

```
}
> <
+p {
```

ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。 ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。ぞうの卵はおいしいぞう。

```
ぞうの卵はおいしいぞう。}>
```

4. Dependency

parallel is independent of any external packages except for pervasives, which is distributed with SATySF_I.

5. Contributing

The original source code of this package is written in parallel.org and the distribution is generated by tangling it with GNU Emacs. If you want to make a pull request on GitHub, please modify this file.

It is also welcome to make an issue with a suggestion of improvement, bug fix, and so on.

6. Implementation

The following shows the implementation of the parallel package.

```
@require: pervasives

module Parallel : sig

direct +parallel : [float?; float?; block-text; block-text] block-
cmd

end = struct
    let-block ctx +parallel ?:left-ratio ?:right-ratio left-block right-
block =
    let left-ratio =
    match left-ratio with
| None -> 0.48
| Some(left-ratio) -> left-ratio in
```

```
let right-ratio =
 match right-ratio with
  | None -> 0.48
  | Some(right-ratio) -> right-ratio in
      let left-column-width = (get-text-width ctx) *' left-ratio in
      let right-column-width = (get-text-width ctx) *' right-ratio in
      let margin = (get-text-width ctx) -' left-column-width -' right-
column-width in
      let br-left-pbox =
  embed-block-top ctx left-column-width (fun ctx -> read-block ctx left-
block) in
      let br-right-pbox =
  embed-block-top ctx right-column-width (fun ctx -> read-block ctx right-
block) in
      form-paragraph ctx (br-left-pbox ++ (inline-skip margin) ++ br-
right-pbox)
end
```

7. On the release to satyrographos-repo

Since the source files are tangled from parallel.org, we have to upload an artifact as a tar.gz file and publish an opam package with it. The generation of the artifact tar.gz file is automated by GitHub Actions. What we have to do is as follows.

- (1) When we want to publish a new version, we create a new tag vX.Y.Z and push to the GitHub repository.
- (2) package.tar.gz is automatically generated by GitHub Actions.
- (3) We use opam pubilsh to publish the new release. The following shows an example command to use.

```
opam publish --repo=na4zagin3/satyrographos-repo https://github.com/MasWag/satysfi-parallel/releases/download/vX.Y.Z/package.tar.gz .
```