The parallel package

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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.

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. Commands

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.

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

}

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— 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>
```

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+p {
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```
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```

4. Dependency

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

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 zip file and publish an opam package with it. The generation of the artifact zip file is automated with GitHub Actions. What we have to do is as follows.

- (1) When we want to publish the new version create a new tag vX.Y.Z and push to the GitHub repository.
- (2) package.zip 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.zip .
```