

The `cmupint` package

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1 Why `cmupint`?

The shape of integral symbol in some languages differs slightly from the shape commonly seen in English-language textbooks. While the English integral symbol leans to the right, the integral symbol used throughout Central Europe (such as in German or Serbian language) is upright.

Another difference is in the placement of limits for definite integrals. Generally, in English-language books, limits go to the right of the integral symbol, while in Central European languages the limits are placed above and below the integral symbol.

$$\int_L^U x \, dx \quad (\text{English language})$$
$$\int_L^U x \, dx \quad (\text{Central European languages})$$

The `cmupint` package contains various upright integral symbols to match Computer Modern font (default L^AT_EX font).

2 Usage

This package is very simple to use: just put

```
\usepackage{cmupint}
```

in preamble of the document.

3 Options

The available options are `displaylimits` (default option), `limits` and `nolimits` (see Table 1).

4 Integral symbols

For the available integral symbols see Table 2.

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¹If package `amsmath` is loaded.

²If package `amsmath` is not loaded.

Option	Text style	Display style
<code>displaylimits</code>	$\int_L^U x \, dx$	$\int_L^U x \, dx$
<code>limits</code>	$\int_L^U x \, dx$	$\int_L^U x \, dx$
<code>nolimits</code>	$\int_L^U x \, dx$	$\int_L^U x \, dx$

Table 1: Package options.

Command	Text style	Display style	Command	Text style	Display style
<code>\int</code>	\int	\int	<code>\iint</code>	\iint	\iint
<code>\iiint</code>	\iiint	\iiint	<code>\iiiint</code>	\iiiint	\iiiint
<code>\oint</code>	\oint	\oint	<code>\oiint</code>	\oiint	\oiint
<code>\oiiint</code>	\oiiint	\oiiint	<code>\ointccw</code>	\ointccw	\ointccw
<code>\ointclockwise</code>	\oint	\oint	<code>\varointclockwise</code>	\varointclockwise	\varointclockwise
<code>\varointccw</code>	\oint	\oint	<code>\sqint</code>	\sqint	\sqint
<code>\sqaint</code>	\sqaint	\sqaint	<code>\pointint</code>	\pointint	\pointint
<code>\noint</code>	\noint	\noint	<code>\scpolint</code>	\scpolint	\scpolint
<code>\rppoint</code>	\rppoint	\rppoint	<code>\cirfnint</code>	\cirfnint	\cirfnint
<code>\intclockwise</code>	\int	\int	<code>\awint</code>	\awint	\awint
<code>\fint</code>	\fint	\fint	<code>\barint</code>	\barint	\barint
<code>\doublebarint</code>	\doublebarint	\doublebarint	<code>\xint</code>	ξnt	ξnt
<code>\landupint</code>	\landupint	\landupint	<code>\landdownint</code>	\landdownint	\landdownint
<code>\intlarhk</code>	\intlarhk	\intlarhk	<code>\upint</code>	\upint	\upint
<code>\downint</code>	\downint	\downint	<code>\varidotsint</code>	\varidotsint	\varidotsint
<code>\idotsint¹</code>	$\cdots \int$	$\cdots \int$	<code>\idotsint²</code>	$\cdots \int$	$\cdots \int$

Table 2: Integral symbols.