

Test LICR macros in LuaTeX's 8-bit compatibility mode

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This document tests the compatibility of “luainputenc” and the Greek font setup for TU and PU. It uses only ASCII input.

See the source `test-inputenc.tex` for the input used in the examples.

Contents

[illegible]

The shape and position of the mute iota with pre-composed capital letters depends on the selected font, both sub-iota and adscript iota are possible.

- `\prosgegrammeni` sets an adscript iota (GREEK PROSGEGRAMMENI), e.g. $\text{A}\iota$. In Unicode fonts the `prosgegrammeni` is spaced similar to the letter iota. In the CB Greek fonts, the only visible difference to the pre-composed characters is a slightly increased spacing.

Copy/Paste may convert the adscript iota to a small letter iota!

`Ypogegrammeni` and `prosgegrammeni` following matching/not-matching base character (unchanged, lowercase, uppercase):

$\text{A}\iota\text{A}\iota$ $\alpha\alpha$ $\text{A}\iota\text{A}\iota$
 $\Lambda\iota$ $\lambda\lambda$ $\Lambda\iota$
 $\alpha\alpha$ $\alpha\alpha$ $\text{A}\iota\text{A}\iota$

Using `\ypogegrammeni` for the mute iota with both, small and capital letters usually gives better results.

1.3 Additional Greek symbols

1.3.1 symbols for Greek numbers

Ϳ `textkoppa`
 ͽ `textKoppa`
 Ϳ `textqoppa` (archaic koppa)
 ͽ `textQoppa` (archaic Koppa)
 Ϳ `textstigma`
 ͽ `textStigma` (Sigma-Tau-Ligature in CB-fonts)¹
 Ϳ `textsampi`
 ͽ `textSampi`
 Ϳ `textdigamma`
 ͽ `textDigamma`
 Ϳ `textdexiakeraia`
 ͽ `textaristerikeraia`

1.3.2 generic text symbols

LICR macros for some symbols from the 8-bit font encoding LGR that are not confined to Greek but not defined in `tuenc.def` [2018/08/11 v2.0j].

Ϳ `textsemicolon`
 μ `textmicro`
 Ϳ `textschwa`

The SI unit prefix MICRO SIGN is not upcased with `MakeUppercase`:

`textmu`: $\mu \mapsto \text{M}$ but `textmicro`: $\mu \mapsto \mu$.

¹the name “stigma” originally applied to a medieval sigma-tau ligature, whose shape was confusingly similar to the cursive digamma

2 Greek in section headings

The packages *textalpha* and *alphabeta* as well as *babel-greek*, add hyperref support for LICR input with non-standard accents or combined diacritics.

2.1 Greek and Coptic

2.1.1 ' , ; ' " A·EHIO'YΩi

2.1.2 ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ

2.1.3 Ἰῶνά ἐν τῷ

2.1.4 αβγδεζηθικλμνξοπρστυφχψω

2.1.5 $\text{üóú} \omega \delta \phi \pi \text{Qq}\zeta \text{Ff}\text{Zz}\eta \text{κρ} \Theta \epsilon$

2.2 Greek Extended

2.2.1 ἁἁἁἁἁἁἁἁΑΑΑΑΑΑΑΑ

2.2.2 $\xi\xi\xi\xi\xi\xi E E E E E$

2.2.3 ၵံၵံၵံၵံၵံၵံၵံၵံH H`H`H`H`H`H`H

2.2.4 üüüüüÜÜÜÜÜ

2.2.5 0000000000000000

2.2.6 ůůűűűűűűűű'Y'Y'Y'Y

[illegible]

2.2.8 ἀάἐήήϊϊοούσύώώ

[illegible][illegible]

2.2.11 $\hat{\omega}\hat{\omega}\hat{\omega}\hat{\omega}\hat{\omega}\hat{\omega}\hat{\omega}'\Omega_i'\Omega_i''\Omega_i''\Omega_i''\Omega_i''\Omega_i'\Omega_i'\Omega_i'$

2.2.12 $\alpha\bar{\alpha}\grave{\alpha}\acute{\alpha}\grave{\alpha}\acute{\alpha}\tilde{\alpha}\tilde{\alpha}\check{\text{A}}\bar{\text{A}}\grave{\text{A}}\acute{\text{A}}\text{A}\text{'}\text{'}$

2.2.13 ~ ¨ ðððñ¨¨'E'E'H H H," " ¢

2.2.14 $\tilde{u}\tilde{v}\tilde{w}\tilde{x}\tilde{y}\tilde{z}$, $\tilde{\alpha}$

2.2.15 $\check{u}\bar{u}\check{u}\check{r}\check{r}\check{u}\check{u}\check{Y}\check{Y}\check{Y}\check{P}^{\cdot}$ “、”

2.2.16 ẏẏẏẏ̃ẏ̃'ŌŌ'ΩΩΩ' '

text		mathematics	
macro	output	macro	output
<code>\textpi</code>	π	<code>\pi</code>	π
<code>\textvarpi</code>	ϖ	<code>\varpi</code>	ϖ
<code>\textpisymbol</code>	ϖ		
<code>\textrho</code>	ρ	<code>\rho</code>	ρ
<code>\textvarrho</code>	ϱ	<code>\varrho</code>	ϱ
<code>\textrhosymbol</code>	ϱ		
<code>\texttheta</code>	θ	<code>\theta</code>	θ
<code>\textvartheta</code>	ϑ	<code>\vartheta</code>	ϑ
<code>\textthetasymbol</code>	ϑ		
<code>\textepsilon</code>	ϵ	<code>\epsilon</code>	ϵ
<code>\textvarepsilon</code>	ε	<code>\varepsilon</code>	ε
<code>\textepsilonsymbol</code>	ϵ		
<code>\textphi</code>	φ	<code>\phi</code>	ϕ
<code>\textvarphi</code>	φ	<code>\varphi</code>	φ
<code>\textphisymbol</code>	ϕ		
<code>\textbeta</code>	β	<code>\beta</code>	β
<code>\textvarbeta</code>	β	<i>missing</i>	
<code>\textbetasymbol</code>	β		
<code>\textkappa</code>	κ	<code>\kappa</code>	κ
<code>\textvarkappa</code>	κ	<code>\varkappa</code>	\varkappa
<code>\textkappasymbol</code>	κ		
<code>\textTheta</code>	Θ	<code>\Theta</code>	Θ
<code>\textvarTheta</code>	Θ	<i>missing</i>	
<code>\textThetasymbol</code>	Θ		

Table 1: Macros for Greek symbol variants