The file `tulm.fdd` for use with LaTeX 2ε.*

LaTeX Project

2021/07/23

> This file is maintained by the LaTeX Project team.
> Bug reports can be opened (category `latex`) at
> https://latex-project.org/bugs.html.

1 TUlmr

```
1 ⟨∗TUlmr⟩
2 \DeclareFontFamily{TU}{lmr}{}
3 \DeclareFontShape{TU}{lmr}{m}{n}%
4   {<-5.5>    \UnicodeFontFile{lmroman5-regular}{\UnicodeFontTeXLigatures}
5    <5.5-6.5> \UnicodeFontFile{lmroman6-regular}{\UnicodeFontTeXLigatures}
6    <6.5-7.5> \UnicodeFontFile{lmroman7-regular}{\UnicodeFontTeXLigatures}
7    <7.5-8.5> \UnicodeFontFile{lmroman8-regular}{\UnicodeFontTeXLigatures}
8    <8.5-9.5> \UnicodeFontFile{lmroman9-regular}{\UnicodeFontTeXLigatures}
9    <9.5-11>  \UnicodeFontFile{lmroman10-regular}{\UnicodeFontTeXLigatures}
10   <11-15>    \UnicodeFontFile{lmroman12-regular}{\UnicodeFontTeXLigatures}
11   <15-> \UnicodeFontFile{lmroman17-regular}{\UnicodeFontTeXLigatures}
12   }{}
13 \DeclareFontShape{TU}{lmr}{m}{sl}%
14   {<-8.5>    \UnicodeFontFile{lmromanslant8-regular}{\UnicodeFontTeXLigatures}
15    <8.5-9.5> \UnicodeFontFile{lmromanslant9-regular}{\UnicodeFontTeXLigatures}
16    <9.5-11>  \UnicodeFontFile{lmromanslant10-regular}{\UnicodeFontTeXLigatures}
17    <11-15>    \UnicodeFontFile{lmromanslant12-regular}{\UnicodeFontTeXLigatures}
18    <15-> \UnicodeFontFile{lmromanslant17-regular}{\UnicodeFontTeXLigatures}
19   }{}
20 \DeclareFontShape{TU}{lmr}{m}{it}%
21   {<-7.5>    \UnicodeFontFile{lmroman7-italic}{\UnicodeFontTeXLigatures}
22    <7.5-8.5> \UnicodeFontFile{lmroman8-italic}{\UnicodeFontTeXLigatures}
23    <8.5-9.5> \UnicodeFontFile{lmroman9-italic}{\UnicodeFontTeXLigatures}
24    <9.5-11>  \UnicodeFontFile{lmroman10-italic}{\UnicodeFontTeXLigatures}
25    <11->    \UnicodeFontFile{lmroman12-italic}{\UnicodeFontTeXLigatures}
26   }{}
27 \DeclareFontShape{TU}{lmr}{m}{sc}%
28   {<-> \UnicodeFontFile{lmromancaps10-regular}{\UnicodeFontTeXLigatures}}{}
29 \DeclareFontShape{TU}{lmr}{m}{ui}%
30   {<-> \UnicodeFontFile{lmromanunsl10-regular}{\UnicodeFontTeXLigatures}}{}
31 \DeclareFontShape{TU}{lmr}{m}{scsl}%
32   {<-> \UnicodeFontFile{lmromancaps10-oblique}{\UnicodeFontTeXLigatures}}{}
```

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*This file has version number v1.8a, dated 2021/07/23.

```
33 \DeclareFontShape{TU}{lmr}{b}{n}
34  {<-> \UnicodeFontFile{lmromandemi10-regular}{\UnicodeFontTeXLigatures}}{}
35 \DeclareFontShape{TU}{lmr}{b}{sl}
36  {<-> \UnicodeFontFile{lmromandemi10-oblique}{\UnicodeFontTeXLigatures}}{}
37 \DeclareFontShape{TU}{lmr}{bx}{n}
38  {<-5.5>  \UnicodeFontFile{lmroman5-bold}{\UnicodeFontTeXLigatures}
39   <5.5-6.5> \UnicodeFontFile{lmroman6-bold}{\UnicodeFontTeXLigatures}
40   <6.5-7.5> \UnicodeFontFile{lmroman7-bold}{\UnicodeFontTeXLigatures}
41   <7.5-8.5> \UnicodeFontFile{lmroman8-bold}{\UnicodeFontTeXLigatures}
42   <8.5-9.5> \UnicodeFontFile{lmroman9-bold}{\UnicodeFontTeXLigatures}
43   <9.5-11>  \UnicodeFontFile{lmroman10-bold}{\UnicodeFontTeXLigatures}
44   <11->     \UnicodeFontFile{lmroman12-bold}{\UnicodeFontTeXLigatures}
45   }{}
46 \DeclareFontShape{TU}{lmr}{bx}{it}
47  {<-> \UnicodeFontFile{lmroman10-bolditalic}{\UnicodeFontTeXLigatures}}{}
48 \DeclareFontShape{TU}{lmr}{bx}{sl}
49  {<-> \UnicodeFontFile{lmromanslant10-bold}{\UnicodeFontTeXLigatures}}{}
50 \DeclareFontShape{TU}{lmr}{b}{it}
51  {<->sub * lmr/b/sl}{}
52 ⟨/TUlmr⟩
```

2 TUlmss

```
53 ⟨*TUlmss⟩
54 \DeclareFontFamily{TU}{lmss}{}
55 \DeclareFontShape{TU}{lmss}{m}{n}
56  {<-8.5> \UnicodeFontFile{lmsans8-regular}{\UnicodeFontTeXLigatures}
57   <8.5-9.5> \UnicodeFontFile{lmsans9-regular}{\UnicodeFontTeXLigatures}
58   <9.5-11>  \UnicodeFontFile{lmsans10-regular}{\UnicodeFontTeXLigatures}
59   <11-15.5> \UnicodeFontFile{lmsans12-regular}{\UnicodeFontTeXLigatures}
60   <15.5-> \UnicodeFontFile{lmsans17-regular}{\UnicodeFontTeXLigatures}
61   }{}
62 \DeclareFontShape{TU}{lmss}{m}{it}
63  {<->ssub*lmss/m/sl}{}
64 \DeclareFontShape{TU}{lmss}{m}{sl}
65  {<-8.5> \UnicodeFontFile{lmsans8-oblique}{\UnicodeFontTeXLigatures}
66   <8.5-9.5> \UnicodeFontFile{lmsans9-oblique}{\UnicodeFontTeXLigatures}
67   <9.5-11>  \UnicodeFontFile{lmsans10-oblique}{\UnicodeFontTeXLigatures}
68   <11-15.5> \UnicodeFontFile{lmsans12-oblique}{\UnicodeFontTeXLigatures}
69   <15.5-> \UnicodeFontFile{lmsans17-oblique}{\UnicodeFontTeXLigatures}
70   }{}
71 \DeclareFontShape{TU}{lmss}{m}{sc}
72  {<->sub*lmr/m/sc}{}
73 \DeclareFontShape{TU}{lmss}{b}{n}
74  {<->ssub * lmss/bx/n}{}
75 \DeclareFontShape{TU}{lmss}{b}{sl}
76  {<->ssub * lmss/bx/sl}{}
77 \DeclareFontShape{TU}{lmss}{b}{it}
78  {<->ssub * lmss/bx/it}{}
79 \DeclareFontShape{TU}{lmss}{sbc}{n}
80  {<-> \UnicodeFontFile{lmsansdemicond10-regular}{\UnicodeFontTeXLigatures}}{}
81 \DeclareFontShape{TU}{lmss}{sbc}{sl}
82  {<-> \UnicodeFontFile{lmsansdemicond10-oblique}{\UnicodeFontTeXLigatures}}{}
83 \DeclareFontShape{TU}{lmss}{sbc}{it}
```

```
84    {<->ssub*lmss/sbc/sl}}{}
85 \DeclareFontShape{TU}{lmss}{bx}{n}
86    {<-> \UnicodeFontFile{lmsans10-bold}{\UnicodeFontTeXLigatures}}{}
87 \DeclareFontShape{TU}{lmss}{bx}{sl}
88    {<-> \UnicodeFontFile{lmsans10-boldoblique}{\UnicodeFontTeXLigatures}}{}
89 \DeclareFontShape{TU}{lmss}{bx}{it}
90    {<->ssub*lmss/bx/sl}}{}
91 ⟨/TUlmss⟩
```

3   TUlmssq

```
 92 ⟨*TUlmssq⟩
 93 \DeclareFontFamily{TU}{lmssq}{}
 94 \DeclareFontShape{TU}{lmssq}{m}{n}
 95    {<-> \UnicodeFontFile{lmsansquot8-regular}{\UnicodeFontTeXLigatures}}{}
 96 \DeclareFontShape{TU}{lmssq}{m}{sl}
 97    {<-> \UnicodeFontFile{lmsansquot8-oblique}{\UnicodeFontTeXLigatures}}{}
 98 \DeclareFontShape{TU}{lmssq}{bx}{n}
 99    {<-> \UnicodeFontFile{lmsansquot8-bold}{\UnicodeFontTeXLigatures}}{}
100 \DeclareFontShape{TU}{lmssq}{bx}{sl}
101    {<-> \UnicodeFontFile{lmsansquot8-boldoblique}{\UnicodeFontTeXLigatures}}{}
102 \DeclareFontShape{TU}{lmssq}{m}{it}
103    {<->ssub*lmssq/m/sl}}{}
104 \DeclareFontShape{TU}{lmssq}{bx}{it}
105    {<->ssub*lmssq/bx/sl}}{}
106 \DeclareFontShape{TU}{lmssq}{b}{n}
107    {<->ssub * lmssq/bx/n}}{}
108 \DeclareFontShape{TU}{lmssq}{b}{sl}
109    {<->ssub * lmssq/bx/sl}}{}
110 \DeclareFontShape{TU}{lmssq}{b}{it}
111    {<->ssub * lmssq/bx/it}}{}
112 ⟨/TUlmssq⟩
```

4   TUlmtt

```
113 ⟨*TUlmtt⟩
114 \DeclareFontFamily{TU}{lmtt}{%
115 \hyphenchar \font\m@ne
116 \fontdimen3\font\z@
117 \fontdimen4\font\z@
118 }
119 \ifx\lmtt@use@light@as@normal\@empty
120 \DeclareFontShape{TU}{lmtt}{sb}{n}
121    {<-8.5>   \UnicodeFontFile{lmmono8-regular}{}
122     <8.5-9.5> \UnicodeFontFile{lmmono9-regular}{}
123     <9.5-11> \UnicodeFontFile{lmmono10-regular}{}
124     <11->   \UnicodeFontFile{lmmono12-regular}{}
125     }{}
126 \DeclareFontShape{TU}{lmtt}{sb}{it}
127    {<-> \UnicodeFontFile{lmmono10-italic}{}}{}
128 \DeclareFontShape{TU}{lmtt}{sb}{sl}
129    {<-> \UnicodeFontFile{lmmonoslant10-regular}{}}{}
130 \DeclareFontShape{TU}{lmtt}{sb}{sc}
131    {<-> \UnicodeFontFile{lmmonocaps10-regular}{}}{}
```

```
132 \DeclareFontShape{TU}{lmtt}{sb}{scsl}
133   {<-> \UnicodeFontFile{lmmonocaps10-oblique}{}}{}
134 \DeclareFontShape{TU}{lmtt}{m}{n}
135   {<-> \UnicodeFontFile{lmmonolt10-regular}{}}{}
136 \DeclareFontShape{TU}{lmtt}{m}{it}
137   {<->sub*lmtt/l/sl}{}
138 \DeclareFontShape{TU}{lmtt}{m}{sl}
139   {<-> \UnicodeFontFile{lmmonolt10-oblique}{}}{}
140 \DeclareFontShape{TU}{lmtt}{c}{n}
141   {<-> \UnicodeFontFile{lmmonoltcond10-regular}{}}{}
142 \DeclareFontShape{TU}{lmtt}{c}{it}
143   {<->sub*lmtt/lc/sl}{}
144 \DeclareFontShape{TU}{lmtt}{c}{sl}
145   {<-> \UnicodeFontFile{lmmonoltcond10-oblique}{}}{}
146 \else
147 \DeclareFontShape{TU}{lmtt}{m}{n}
148   {<-8.5>   \UnicodeFontFile{lmmono8-regular}{}
149   <8.5-9.5> \UnicodeFontFile{lmmono9-regular}{}
150    <9.5-11> \UnicodeFontFile{lmmono10-regular}{}
151    <11->  \UnicodeFontFile{lmmono12-regular}{}
152    }{}
153 \DeclareFontShape{TU}{lmtt}{m}{it}
154   {<-> \UnicodeFontFile{lmmono10-italic}{}}{}
155 \DeclareFontShape{TU}{lmtt}{m}{sl}
156   {<-> \UnicodeFontFile{lmmonoslant10-regular}{}}{}
157 \DeclareFontShape{TU}{lmtt}{m}{sc}
158   {<-> \UnicodeFontFile{lmmonocaps10-regular}{}}{}
159 \DeclareFontShape{TU}{lmtt}{m}{scsl}
160   {<-> \UnicodeFontFile{lmmonocaps10-oblique}{}}{}
161 \DeclareFontShape{TU}{lmtt}{l}{n}
162   {<-> \UnicodeFontFile{lmmonolt10-regular}{}}{}
163 \DeclareFontShape{TU}{lmtt}{l}{it}
164   {<->sub*lmtt/l/sl}{}
165 \DeclareFontShape{TU}{lmtt}{l}{sl}
166   {<-> \UnicodeFontFile{lmmonolt10-oblique}{}}{}
167 \DeclareFontShape{TU}{lmtt}{lc}{n}
168   {<-> \UnicodeFontFile{lmmonoltcond10-regular}{}}{}
169 \DeclareFontShape{TU}{lmtt}{lc}{it}
170   {<->sub*lmtt/lc/sl}{}
171 \DeclareFontShape{TU}{lmtt}{lc}{sl}
172   {<-> \UnicodeFontFile{lmmonoltcond10-oblique}{}}{}
173 \fi
174 \DeclareFontShape{TU}{lmtt}{b}{n}
175   {<-> \UnicodeFontFile{lmmonolt10-bold}{}}{}
176 \DeclareFontShape{TU}{lmtt}{b}{it}
177   {<->sub*lmtt/b/sl}{}
178 \DeclareFontShape{TU}{lmtt}{b}{sl}
179 {<-> \UnicodeFontFile{lmmonolt10-boldoblique}{}}{}
180 \DeclareFontShape{TU}{lmtt}{bx}{it}
181   {<->sub*lmtt/b/sl}{}
182 \DeclareFontShape{TU}{lmtt}{bx}{n}
183   {<->ssub*lmtt/b/n}{}
184 \DeclareFontShape{TU}{lmtt}{bx}{sl}
185   {<->ssub*lmtt/b/sl}{}
```

186 ⟨/TUlmtt⟩

5   TUlmvtt

187 ⟨∗TUlmvtt⟩
188 \DeclareFontFamily{TU}{lmvtt}{}
189 \ifx\lmtt@use@light@as@normal\@empty
190 \DeclareFontShape{TU}{lmvtt}{sb}{n}
191   {<->\UnicodeFontFile{lmmonoprop10-regular}{}}{}
192 \DeclareFontShape{TU}{lmvtt}{sb}{sl}
193   {<->\UnicodeFontFile{lmmonoprop10-oblique}{}}{}
194 \DeclareFontShape{TU}{lmvtt}{sb}{it}
195   {<->sub*lmvtt/m/sl}{}
196 \DeclareFontShape{TU}{lmvtt}{m}{n}
197   {<->\UnicodeFontFile{lmmonoproplt10-regular}{}}{}
198 \DeclareFontShape{TU}{lmvtt}{m}{sl}
199   {<->\UnicodeFontFile{lmmonoproplt10-oblique}{}}{}
200 \DeclareFontShape{TU}{lmvtt}{m}{it}
201   {<->sub*lmvtt/l/sl}{}
202 \else
203 \DeclareFontShape{TU}{lmvtt}{m}{n}
204   {<->\UnicodeFontFile{lmmonoprop10-regular}{}}{}
205 \DeclareFontShape{TU}{lmvtt}{m}{sl}
206   {<->\UnicodeFontFile{lmmonoprop10-oblique}{}}{}
207 \DeclareFontShape{TU}{lmvtt}{m}{it}
208   {<->sub*lmvtt/m/sl}{}
209 \DeclareFontShape{TU}{lmvtt}{l}{n}
210   {<->\UnicodeFontFile{lmmonoproplt10-regular}{}}{}
211 \DeclareFontShape{TU}{lmvtt}{l}{sl}
212   {<->\UnicodeFontFile{lmmonoproplt10-oblique}{}}{}
213 \DeclareFontShape{TU}{lmvtt}{l}{it}
214   {<->sub*lmvtt/l/sl}{}
215 \fi
216 \DeclareFontShape{TU}{lmvtt}{b}{n}
217   {<->\UnicodeFontFile{lmmonoproplt10-bold}{}}{}
218 \DeclareFontShape{TU}{lmvtt}{b}{sl}
219   {<->\UnicodeFontFile{lmmonoproplt10-boldoblique}{}}{}
220 \DeclareFontShape{TU}{lmvtt}{b}{it}
221   {<->sub*lmvtt/b/sl}{}
222 \DeclareFontShape{TU}{lmvtt}{bx}{n}
223   {<->ssub*lmvtt/b/n}{}
224 \DeclareFontShape{TU}{lmvtt}{bx}{sl}
225   {<->ssub*lmvtt/b/sl}{}
226 \DeclareFontShape{TU}{lmvtt}{bx}{it}
227   {<->sub*lmvtt/b/sl}{}
228 ⟨/TUlmvtt⟩

6   TUlmdh

229 ⟨∗TUlmdh⟩
230 \DeclareFontFamily{TU}{lmdh}{}%
231 \DeclareFontShape{TU}{lmdh}{m}{n}
232   {<->   \UnicodeFontFile{lmromandunh10-regular}{\UnicodeFontTeXLigatures}
233   }{}

```
234 \DeclareFontShape{TU}{lmdh}{m}{sl}
235   {<->   \UnicodeFontFile{lmromandunh10-oblique}{\UnicodeFontTeXLigatures}
236   }{}
237 \DeclareFontShape{TU}{lmdh}{m}{it}
238   {<->sub*lmdh/m/sl}{}
239 ⟨/TUlmdh⟩
```