## Itxcheck: The LATEX test program\*

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This file, ltxcheck.tex should be run after LATEX has been installed. It Checks some system dependent parts of LATEX are set up correctly for your system, and checks that the main input files and fonts that LATEX uses are present and can be found by LATEX.

```
1 \makeatletter
 2 \typeout{^^J%
 3 LaTeX2e installation check file^^J%
 5 \typeout{^^J%
 6 Before running this file through LaTeX2e you should have installed^^J%
 7 the Standard LaTeX files in their final `system' directories.^^J%
 8 This file should *not* be run in a directory that contains article.cls}
   \pause just slows things down so that not too much appears on the screen at
once, or scrolls off the top.
 9 \def\pause{%
    \typeout{}%
     \message{** Hit return to continue: }%
11
    12
    \typeout{}}
13
14 \typeout{^^J%
15 After certain tests, LaTeX will pause so that you can read the ^1/%
    output without it scrolling off the screen.^^J%
17 When you are ready just hit <return> and LaTeX will continue.^^J%
When LaTeX pauses, you will see a prompt like the one below.^^J^^J%
19 If a test fails, a message will be displayed followed by ^ J%
    an error message starting `! BAD'.^^J%
   LaTeX will quit if you try to scroll past some error messages.}
21
22 \pause
   Check that the system has defined \@currdir correctly by writing an .aux file
and then trying to find it again.
23 \neq ^2
24 Checking the current directory syntax^^J%
    ----}
26 \newif\iftest\testfalse
27 \ifx\@currdir\@undefined
    \typeout{^^J%
    \noexpand\@currdir is undefined !!^^J%
29
    Something is seriously wrong with the LaTeX2e initialisation.^^J%
30
    Either you have corrupted files or this is a LaTeX bug.}
31
    \errmessage{BAD LaTeX2e system!!}
32
    \expandafter\@@end
33
34 \fi
```

 $<sup>^{*}\</sup>mathrm{version}$  v1.1d, dated 2004/02/11

```
35 \ifx\@currdir\@empty
36
   \typeout{^^J%
    \noexpand\@currdir is defined to be empty.^^J%
37
    This means that LaTeX can not distinguish between a file^^J%
38
    aaaaa.tex^^J%
    that exists in the current directory, and a file aaaaa.tex^^J%
40
    in another directory.^^J%
41
    It may be that this Operating System has no concept of `directory'^^\mathrm{J}\%
42
    in which case the setting is correct. If however it is possible to \hat{\ \ }J\%
43
    uniquely refer to a file then a suitable definition of
44
      \noexpand\@currdir^^J%
45
    should be added to texsys.cfg, and the format remade.}
46
47
    \pause
48 \else
    \t ^^J\%
50 \noexpand\@currdir is defined as
      \expandafter\strip@prefix\meaning\@currdir^^J%
51
    (Testing...)}
52
53 \begingroup
54 \endlinechar=-1
55 \count@\time
56 \divide\count@ 60
57 \count2=-\count@
58 \multiply\count2 60
59 \advance\count2 \time
60 \edef\today{%
    \the\year/\two@digits{\the\month}/\two@digits{\the\day}:%
61
      \two@digits{\the\count@}:\two@digits{\the\count2}}
62
    \immediate\openout15=ltxcheck.aux
63
    \immediate\write15{\today^^J}
64
65
    \immediate\closeout15 %
    \openin\@inputcheck\@currdir ltxcheck.aux %
66
    \ifeof\@inputcheck
67
      \typeout{\@currdir ltxcheck.aux not found}%
68
69
    \else
70
      \read\@inputcheck to \reserved@a
71
      \ifx\reserved@a\today
72
        \typeout{\@currdir ltxcheck.aux found}
73
        \testtrue
74
         \typeout{BAD: old file \reserved@a(should be \today)}%
75
        \testfalse
76
      \fi
77
    \fi
78
    \closein\@inputcheck
79
    \iftest
80
      \endgroup
81
      \typeout{\noexpand \@currdir OK!}
82
83
    \else
    \endgroup
84
    \typeout{^^J%
85
      The LaTeX2e installation has defined \noexpand\@currdir^^J%
86
      to be \expandafter\strip@prefix\meaning\@currdir.^^J%
87
      This appears to be incorrect. ^^ J%
88
      You should add a correct definition to texsys.cfg^^J%
89
      and rebuild the format.}
90
    \errmessage{BAD LaTeX2e system!!}
91
    \expandafter\expandafter\equiv @Qend
92
    \fi
93
    \pause
94
```

Check the filename parser can at least cope with a simple name + extension, article.cls.

```
96 \typeout{^^J%
97 Checking the filename parser^^J%
    =========}
99 \filename@parse{article.cls}
100 \def\reserved@a{article}
101 \testtrue
102 \ifx\filename@base\reserved@a
103
   \ifx\filename@ext\@clsextension
104
    \else
      \testfalse
105
106
    \fi
107 \else
   \testfalse
108
109 \fi
110 \iftest
      \typeout{filename parser OK!}\pause
111
112 \else
    \typeout{^^J%
113
      The LaTeX2e installation has defined \noexpand\filename@parse.^^J%
114
      This appears to be incorrect.^^J\%
115
116
      You should remove the incorrect definition from texsys.cfg^^J%
117
      and rebuild the format.}
    \errmessage{BAD LaTeX2e system!!}
119 \expandafter\expandafter\expandafter\@@end
120 \fi
121 %
```

Check the input path by looking for article.cls. If article.cls is in the current directory it would be found anyway, so first check it is not there.

```
122 \typeout{^^J%
    Checking the input path^^J%
     -----^
125 \begingroup
126 \let\input@path\@undefined
127 \ifx\@currdir\@empty\else
    \IfFileExists{\@currdir article.cls}
128
129
      {\typeout{%
         article.cls appears to be in current directory!^^J^^J%
130
         If this is the case, install article.cls into a^{-J}%
131
132
         `standard input directory'^^J%
         and copy ltxcheck.tex to another directory before ^1/%
133
         processing with LaTeX.^^J%
134
          `^J%
135
         If article.cls is not in the current directory, ^^J%
136
         then you need to edit texsys.cfg.^^J%
137
138
         Read the comments in that file. If nothing else works, add:^^J%
139
         \string\let\string\@currdir\string\@empty^^J}%
       \errhelp{Move files, or edit texsys.cfg}
140
       \def\ArticleClassFoundInCurrentDirectory{%
         This file should not be run in a `standard input directory'}
142
143
       \errmessage{BAD: \ArticleClassFoundInCurrentDirectory}}
144
145 \fi
146 \endgroup
147 \IfFileExists{article.cls}
    {\typeout{input path OK!}}
    {\typeout{^^J%
```

```
LaTeX claims that article.cls is not on the system. ^^J%
150
151
               Either LaTeX has been incorrectly installed, or the
152
                \noexpand\input@path^^J%
               is incorrect. A correct definition should be added to ^ J 1/4
153
               texsys.cfg, and the format remade.}
154
            \pause
155
            \typeout{^^J%
156
157
               Typical definitions of \noexpand\input@path include: ^^J^^J%
               \verb|\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\tring=\trin
158
                  (the default definition) ^^ J^^ J%
159
               \string\def\string\input@path{\@percentchar^^J
160
                    {/usr/lib/tex/inputs/} {/usr/local/lib/tex/inputs/} }^^J^^J%
161
162
                \string\def\string\input@path{\@percentchar^^J
                    {c:/tex/inputs/} {a:/} }^^J^^J%
163
               \string\def\string\input@path{\@percentchar^^J
164
                    {tex_inputs:} {SOMEDISK:[SOMEWHERE.TEX.INPUTS]} }^^J}%
165
166
            \pause
            \t ^{j}
167
               Note that \noexpand\input@path should be undefined
168
169
                   unless your^^J%
170
               TeX installation does not make
                    \noexpand\openin and \noexpand\input^^J%
171
               search the same directories. ^^ J%
172
173
               If \noexpand\input@path is defined, entries should be^^J%
               in the same syntax as \noexpand\@currdir^^J%
174
               ie full directory names that may be concatenated with the ^J%
175
               basename (note the final / and ] in the above examples).^^J\%
176
177
               Some systems may need more complicated settings.^^J%
               See texsys.cfg for more examples.^^J\%
178
              ! BAD \noexpand\input@path!!}
179
            \@@end}%
180
181 \pause
      For versions prior to TEX3 complain to the installer. (Although LATEX will
work with these old T<sub>F</sub>X versions). For versions between 3 and 3.14 check that
LATEX is using the work-around for the ^^J in \message bug.
182 \typeout{^^J%
183
          Checking the TeX version^^J%
184
          186 \ifx\noboundary\relax
187
          \typeout{^^J%
              This is TeX 2. You will not be able to use all the new features^^J%
188
              of LaTeX2e with such an old TeX.^^J%
189
              The current version (1995/12/11) is TeX 3.14159.^{J}
190
              Consider upgrading your TeX.}
191
192
          \ifdim\dimen@<3\p@\else
                \errhelp{Check that texsys.cfg has not defined \@TeXversion}
193
194
                \def\OldTeX{%
                    BAD: \noexpand\@TeXversion is incorrect: \meaning\@TeXversion}
195
                \errmessage{\OldTeX}
196
         \fi
197
198 \else
```

but the current version (1995/12/11) is TeX 3.14159^^J%

\typeout{This appears to be a recent version of TeX!^^J%

then there has been an incorrect installation.}

This appears to be a TeX between 3.0 and 3.14^^J%

If the following `lines' all appear on the same line, ^^J%

199

200

201

202

 $\frac{203}{204}$ 

205

206

\else

\ifdim\dimen@>3.14\p@

\typeout{^^J%

separated by \string^\string^J %

```
consider upgrading your TeX.^^J%
The following `lines' will appear on the same line,^^J%
separated by \string^\string^J;^^J%
the same problem may affect other messages from LaTeX.}

// ti
separated by \string^\string^J;^^J%

// the same problem may affect other messages from LaTeX.}

// ti
separated by \string^J;^^J%

// the same problem may affect other messages from LaTeX.}

// ti
```

To check that the LATEX fonts have been installed, the well known trick of going into \batchmode, and testing for \nullfont is used. Not all fonts are tested, just a representative sample.

```
216 \typeout{^^J%
217
    Checking fonts^^J%
     218
219 \def\checkfont#1{%
220
    \batchmode
     \int \int t = \#1 
221
     \errorstopmode
222
     \ifx\test\nullfont
223
       \typeout{\@spaces! BAD: #1.tfm not found!}
224
225
       \@tempswatrue
226
     \else
       \typeout{\@spaces OK: #1.tfm found}
227
228
229 \typeout{^^JChecking Standard TeX fonts...}
230 \@tempswafalse
231 \checkfont{cmr10}
232 \checkfont{cmr12}
233 \checkfont{cmmi10}
234 \if@tempswa
     \errhelp{Obtain a complete standard TeX font distribution.}
     \errmessage{BAD: Missing Standard Fonts}
237 \else
       \font\testcm=cmr10
238
239
       \testcm
       \setbox0\hbox{h{}o}
240
241
       \setbox2=\hbox{ho}
       \index(0) = \wd2
242
        \typeout{^^J%
244 OK: correct Computer Modern fonts installed.}%
245
       \else
        \typeout{^^J%
246
247 An unauthorised and incompatible release of the ^J%
248 Computer Modern fonts has been installed on your system.^^J\%
249 The official fonts may be obtained from CTAN archives in: ^{^{-}}J_{M}^{\prime\prime}
250 tex-archive/fonts/cm^^J%
251 For further details see Donald Knuth's Home page: ^^J%
252 http://www-cs-faculty.stanford.edu/\protect~knuth/cm.html}%
     \errhelp{Re-install Computer Modern fonts, and then rebuild LaTeX}
254
     \errmessage{BAD Standard fonts!!}
255
       \fi
    \pause
256
257 \fi
258 \typeout{^^JChecking LaTeX Picture Mode fonts...}
259 \@tempswafalse
260 \checkfont{lcircle10}
261 \checkfont{lcirclew10}
262 \if@tempswa
    \@tempswafalse
```

```
\checkfont{circle10}
264
265
     \checkfont{circlew10}
     \if@tempswa
266
        \typeout{^^J! BAD: You do not have the picture mode fonts:^^J%
267
               lcircle10 and lcirclew10}
268
269
     \else
270
       \typeout{^^J! BAD:%
271
               You have the picture mode fonts with their old names: ^^J%
               circle10 and circlew10 have been renamed to^^J%
272
               lcircle10 and lcirclew10}
273
274
     \errhelp{Obtain a complete standard LaTeX font distribution.}
275
     \errmessage{BAD: Missing LaTeX Fonts}
276
     \pause
279 \fi
280 \typeout{^^JChecking Extra LaTeX Computer Modern fonts...}
281 \Otempswafalse
282 \checkfont{cmmib5}
283 \checkfont{cmmib7}
284 \checkfont{cmex7}
285 \setminus if@tempswa
286 \typeout{! BAD:^^J%
287 LaTeX2e uses a few `extra' Computer Modern fonts produced by ^ J%
288 The American Mathematical Society.^^J%
289 If you install The AMSFONTS font collection, then these, and other, ^{^{\sim}}J_{\rm M}^{\rm W}
290 fonts will be available to LaTeX.^^J%
291 Although installing AMSFONTS is recommended, LaTeX does not require^^J%
292 The full collection; you may obtain a minimal set of extra LaTeX^^J%
293 fonts from any CTAN archive, in: tex-archive/macros/latex/fonts/}
294 \errhelp{Obtain LaTeX fonts or the AMSFONTS collection.}
295 \errmessage{BAD: Missing LaTeX Fonts}
296 \else
     \pause
297
298 \fi
299 \typeout{^^JChecking T1 encoded Computer Modern (dc & ec) fonts...}
This command looks for the string dcr17< in the font tables for T1/cmr. If it is
there, then the T1 fd files match the old dc fonts, for dc release 1.1 or earlier. If
not then presumably new fd files are being used.
300 \def\dcrseventeen{%
     \begingroup
301
302
        \escapechar-1
303
        \xdef\reserved@a{%
304
          \noexpand\in@
            {\expandafter\string\csname dcr17\endcsname<}%
305
            {\expandafter\expandafter\expandafter
306
307
               \string\csname T1/cmr/m/n\endcsname<}}%
     \endgroup
308
     \reserved@a}
309
Similarly this command looks for the string ecrm in the font tables for T1/cmr.
If it is there, then the T1 fd files match the ec fonts, for ec release 1.0 or later.
310 \def\ecrm{%
311
     \begingroup
312
       \escapechar-1
313
       \xdef\reserved@a{%
314
          \noexpand\in@
315
            {\expandafter\string\csname ecrm\endcsname}%
316
            {\expandafter\expandafter\expandafter
               \string\csname T1/cmr/m/n\endcsname}}%
317
     \endgroup
318
     \reserved@a}
319
```

Remove the "! BAD" typeout while checking for dc fonts so as not to worry sites with just the new ones.

```
320 \left| def \right| 1{\%}
     \batchmode
321
    \font\test=#1\relax
322
323
     \errorstopmode
324
    \ifx\test\nullfont
       \typeout{\@spaces\@spaces #1.tfm not found}
325
326
       \@tempswatrue
327
       \typeout{\@spaces OK: #1.tfm found}
328
329
     \fi}
330 \@tempswafalse
331 \checkfont{ecrm1000}
332 \if@tempswa
No ec fonts. Check the state of the dc fonts.
333 \typeout{No EC fonts found, checking DC fonts...}
334 \@tempswafalse
335 \checkfont{dcr10}
336 \if@tempswa
337
    \@tempswafalse
338
     \checkfont{tcr1000}
339
    \if@tempswa
No dc fonts at all.
       \typeout{^^J%
341 ! BAD: No ec fonts found!!^^J%
342 LaTeX does not require the use of ec fonts^^J%
343 however they are strongly recommended. ^^J%
344 The ec fonts are available in a more natural range of sizes^J%
345 and allow better hyphenation and kerning than the ^J/k
346 \ \text{old} fonts such as cmr10.^^J%
347 These ec fonts may be obtained from CTAN archives, in: ^^J%
348 tex-archive/fonts/ec}
     \else
No old dc fonts, but new ones installed. First check whether the latest patch has
been applied.
350
       \font\testdc=dcr1000
351
       \testdc
352
       \setbox0\hbox{A{}y}
353
       \setbox2=\hbox{Ay}
       \index(0) \wd2
354
        \typeout{^^J%
356 ! BAD: dc fonts release 1.3 installed^^J%
357 The dc fonts are now replaced by the ec fonts^^J%
358 These ec fonts may be obtained from CTAN archives, in: ^^J%
359 tex-archive/fonts/ec.}%
360
       \else
        \typeout{^^J%
362 ! BAD dc fonts 1.2 or older installed. ^^J%
363 The dc fonts are now replaced by the ec fonts^^J%
364 These ec fonts may be obtained from CTAN archives, in: ^^J%
365 tex-archive/fonts/ec.}%
366
       \fi
367
       \dcrseventeen
368
       \ifin@
         \typeout{^^J%
370 The fd files for the obsolete release 1.1 of the ^{^{\sim}}J\%
371 dc fonts have been loaded into the LaTeX format.^^J%
372 However, you appear to have at least release 1.2 of the dc fonts.^^J%
```

```
373 You should generate suitable fd files by running: ^^J%
374 latex newdc.ins^^J%
375 and then rebuild the format by rerunning: ^^J%
376 initex latex.ltx}
377
           \errmessage{BAD LaTeX2e system!!}
378
         \else
379
           \typeout{^^J%
380
             DC fonts OK!}
381
        \fi
     \fi
382
383 \else
     \@tempswafalse
384
     \checkfont{tcr1000}
385
     \if@tempswa
Old DC fonts, but no new ones.
        \typeout{^^J%
388 Old dc fonts found!!^^J%
389 Only the original dc fonts are on your system. ^^ J%
390 Later releases of the dc/ec fonts introduced^^J%
391 many improvements and are strongly recommended. ^^J%
392 They may be obtained from CTAN archives, in:^^J%
393 tex-archive/fonts/ec.}
394
       \pause
395
        \dcrseventeen
        \ifin@\else
396
          \typeout{^^J%
397
398 The LaTeX2e installation has installed fd files for^^J%
399 release 1.2 (or later) of the dc fonts.^^J%
400 However, you appear to have only release 1.1 of these fonts. ^^J%
401 You must now generate the correct fd files by running: ^^J%
402 latex olddc.ins^^J%
403 \ \mathrm{and} \ \mathrm{then} \ \mathrm{rebuild} \ \mathrm{the} \ \mathrm{format} \ \mathrm{by} \ \mathrm{rerunning:} ^\mathrm{-}\mathrm{J}\%
404 initex latex.ltx}
          \errmessage{BAD LaTeX2e system!!}
405
        ۱fi
406
     \else
407
Both old and new DC fonts.
        \font\testdc=dcr1000
408
        \testdc
409
        \setbox0\hbox{A{}y}
410
        \scalebox2=\hbox{Ay}
411
        \index(0) \wd2
412
413
         \typeout{^^J%
414 ! BAD: dc fonts release 1.3 installed^^J%
415 The dc fonts are now replaced by the ec fonts^^J%
416 These ec fonts may be obtained from CTAN archives, in: ^^J%
417 tex-archive/fonts/ec.}%
418
       \else
         \typeout{^^J%
419
420 ! BAD dc fonts 1.2 or older installed.^^J%
421 The dc fonts are now replaced by the ec fonts^^J%
422 These ec fonts may be obtained from CTAN archives, in:^{-}J\%
423 tex-archive/fonts/ec.}%
424
        \fi
425
        \dcrseventeen
426
        \ifin@
          \typeout{^^J%
427
428 The fd files for the obsolete release 1.1 of the^J\%
429\;\mathrm{dc} fonts have been loaded into the LaTeX format.^^J%
430 However, you appear to have at least release 1.2 of the dcfonts.^^J%
431 \; \mbox{You should} use generate suitable fd files by running:^^J\%
```

```
432 latex newdc.ins^^J%
433 and then rebuild the format by running: ^^J%
434 initex latex.ltx^^J%
435 Otherwise LaTeX will always use the older fonts.}
           \errmessage{BAD LaTeX2e system!!}
437
        \else
438
          \ecrm
          \ifin@
439
440
            \typeout{^^J%
441\,\mbox{The fd} files for the new EC fonts have been loaded into^^J\%
442 the LaTeX format.^^J%
443 However, these fonts are not found by LaTeX.^^J%
444 You should either install the ec fonts, or generate suitable ^ J%
445 fd files for the dc fonts by running: \space latex newdc.ins^^J%
446 and then rebuild the format by running: \space initex latex.ltx}
447
           \errmessage{BAD LaTeX2e system!!}
448
          \else
            \typeout{^^J%
449
450\;\mathrm{DC} fonts <code>OK!^^J%</code>
451 (Both old and new dc font releases are installed.) ^^ J%
452 Note that the dc fonts are expected to be replaced by ec^^J\%
453 in January 1997.}
454
          \fi
455
        \fi
     \fi
456
457 \fi
Else EC fonts are found, so check whether LaTeX is going to use them.
458 \ensuremath{\setminus} else
459
     \ecrm
460
     \ifin@
      \typeout{EC fonts OK!}
461
462
     \else
463
        \typeout{%
464 EC fonts installed but LaTeX is still using dc fonts.^^J%
465 You may want to run ec.ins and remake the LaTeX format}
466
    \fi
467 \fi
468 \pause
   The following files will be unpacked by running iniTeX on unpack.ins.
469 \typeout{^^JChecking LaTeX input files...^^J}
   If the specified file is not there, add it to the list.
470 \def\checkfile#1{%}
    \IfFileExists{#1}{}{\edef\missingfile{\missingfile#1, }}}
   Report any missing files in the last batch tested.
472 \left| \frac{1}{2} \right|
473 \ifx\missingfile\@empty
474 \typeout{^^J%
475 OK: The #1 files such as #2^^J%
476 are accessible to LaTeX.}
477 \pause
478 \expandafter\@gobbletwo
479 \ensuremath{\setminus} else
     \typeout{^^J%
481 ! BAD: The #1 files:^^J%
482 \missingfile^^J%
483 \; \mathrm{are} \; \mathrm{not} \; \mathrm{accessible} \; \mathrm{to} \; \mathrm{LaTeX.} \}
484 \errhelp{Check the installation!}
485 \let\missingfile\@empty
486 \fi
```

```
487 \errmessage{Missing LaTeX files}}
   Kernel files:
488 \left| \text{det} \right|
489 \checkfile{hyphen.ltx}
490 \checkfile{fontmath.ltx}
491 \checkfile{fonttext.ltx}
492 \checkfile{preload.ltx}
493 \checkfile{texsys.cfg}
494 \checkfile{latex.ltx}
   Don't use \filereport here as the message is rather different as the .ltx files
don't really need to be available to LATEX once the format is made.
495 \ifx\missingfile\@empty
496 \typeout{^{^}J\%
497 OK: The files such as latex.ltx that are used to make^^J%
498 the format are accessible to LaTeX.}
499 \else
500 \typeout{^^J\%
501 The files: ^^J%
502 \missingfile^^J%
503 that are used to make the format are not accessible to LaTeX.^^J\%
504 This is OK, but you will need those files if you need to remake the ^{^{\sim}}J_{\rm M}^{\prime}
505 the format later.}
506 \fi
507 \pause
508 \let\missingfile\@empty
   Class files and class options:
510 \checkfile{article.cls}
511 \checkfile{report.cls}
512 \checkfile{book.cls}
513 \checkfile{letter.cls}
514 \checkfile{ltxdoc.cls}
515 \checkfile{proc.cls}
516 \checkfile{slides.cls}
517 \checkfile{bk10.clo}
518 \checkfile{bk11.clo}
519 \checkfile{bk12.clo}
520 \checkfile{size10.clo}
521 \checkfile{size11.clo}
522 \checkfile{size12.clo}
523 \checkfile{fleqn.clo}
524 \checkfile{leqno.clo}
525 \filereport{main class}{article.cls}
   Package files:
526 \checkfile{alltt.sty}
527 \checkfile{doc.sty}
528 \checkfile{exscale.sty}
529 \checkfile{flafter.sty}
530 \checkfile{fontenc.sty}
531 \checkfile{graphpap.sty}
532 \checkfile{ifthen.sty}
533 \checkfile{inputenc.sty}
534 \checkfile{latexsym.sty}
535 \checkfile{makeidx.sty}
536 \checkfile{newlfont.sty}
537 \checkfile{oldlfont.sty}
538 \checkfile{shortvrb.sty}
539 \checkfile{showidx.sty}
540 \checkfile{slides.sty}
```

```
541 \checkfile{syntonly.sty}
542 \checkfile{tracefnt.sty}
543 \filereport{main package}{ifthen.sty}
   Font definition (.fd) files:
544 }
545 \checkfile{omlcmm.fd}
546 \checkfile{omlcmr.fd}
547 \checkfile{omllcmm.fd}
548 \checkfile{omscmr.fd}
549 \checkfile{omscmsy.fd}
550 \checkfile{omslcmsy.fd}
551 \checkfile{omxcmex.fd}
552 \checkfile{omxlcmex.fd}
553 \checkfile{ot1cmdh.fd}
554 \checkfile{ot1cmfib.fd}
555 \checkfile{ot1cmfr.fd}
556 \checkfile{ot1cmr.fd}
557 \checkfile{ot1cmss.fd}
558 \checkfile{ot1cmtt.fd}
559 \checkfile{ot1cmvtt.fd}
560 \checkfile{ot1lcmss.fd}
561 \checkfile{ot1lcmtt.fd}
562 \checkfile{t1cmdh.fd}
563 \checkfile{t1cmfib.fd}
564 \checkfile{t1cmfr.fd}
565 \checkfile{t1cmr.fd}
566 \checkfile{t1cmss.fd}
567 \checkfile{t1cmtt.fd}
568 \checkfile{t1cmvtt.fd}
569 \checkfile{ts1cmr.fd}
570 \checkfile{ts1cmss.fd}
571 \checkfile{ts1cmtt.fd}
572 \checkfile{ts1cmvtt.fd}
573 \checkfile{ucmr.fd}
574 \checkfile{ucmss.fd}
575 \checkfile{ucmtt.fd}
576 \checkfile{ullasy.fd}
577 \checkfile{ulasy.fd}
578 \filereport{font definition}{t1cmr.fd}
   Font encoding files:
579 \checkfile{t1enc.def}
580 \checkfile{ot1enc.def}
581 \checkfile{omsenc.def}
582 \checkfile{omlenc.def}
583 \filereport{font encoding}{t1enc.def}
   Input encoding files:
584 \checkfile{ascii.def}
585 \checkfile{latin1.def}
586 \checkfile{latin2.def}
587 \checkfile{latin3.def}
588 \checkfile{latin5.def}
589 \checkfile{cp850.def}
590 \checkfile{cp852.def}
591 \checkfile{cp865.def}
592 \checkfile{cp437.def}
593 \checkfile{cp437de.def}
594 \checkfile{applemac.def}
595 \checkfile{next.def}
596 \checkfile{ansinew.def}
```

```
597 \verb|\filereport{input encoding}{flatin1.def}|
   Compatibility files:
598 \checkfile{article.sty}
599 \checkfile{book.sty}
600 \checkfile{letter.sty}
601 \checkfile{proc.sty}
602 \checkfile{report.sty}
603 \checkfile{fleqn.sty}
604 \checkfile{leqno.sty}
605 \verb|\checkfile{openbib.sty}|
606 \checkfile{latex209.def}
607 \filereport{compatibility mode}{article.sty}
   Other files:
608 \checkfile{bezier.sty}
609 \checkfile{docstrip.tex}
610 \checkfile{slides.def}
611 \checkfile{sfonts.def}
612 \checkfile{t1enc.sty}
613 \filereport{remaining}{sfonts.def}
614 \ensuremath{\,\backslash\,} 00end
```