The **ifpdf** Package[*]

LaTeX3 project

2016/04/04

1 Introduction

A re-implementation of Heiko Oberdiek's **ifpdf** package with simplified structure and updated to work with current LuaTeX.

The package defines a new boolean, `\ifpdf` which is true for pdfTeX and LuaTeX in PDF mode, and false otherwise.

2 Implementation

1 ⟨*package⟩

If `\ifpdf` is not defined define it, taking care that it is outer in plain TeX.

```
2 \expandafter\ifx\csname ifpdf\endcsname\relax
3  \csname newif\expandafter\endcsname\csname ifpdf\endcsname
4 \else
```

If `\ifpdf` is already defined but `\pdftrue` is not defined give up.

```
5  \ifx\pdftrue\undefined
6   \ifx\PackageError\undefined
7   \begingroup\def\PackageError#1#2#3{\endgroup\errmessage{#2}}
8   \fi
9   \PackageError{ifpdf}{incompatible ifpdf definition}{}
10   \expandafter\expandafter\expandafter
11  \fi
12 \fi
```

Otherwise set the boolean to false unless pdfoutput (outputmode) is greater than zero. For LuaTeX, do the test in Lua as the tex primitivies may not be enabled, and the primitive name may be `\pdfoutput` or `\outputmode` depending on the LuaTeX version number.

```
13 \let\ifpdf\iffalse
```

```
14 \ifx\directlua\undefined
```

Not LuaTeX.

---

[*]This file has version number v3.0, last revised 2016/04/04. Please report any issues at https://github.com/ho-tex/oberdiek/issues

```
15 \begingroup\expandafter\expandafter\expandafter\endgroup
16 \expandafter\ifx\csname pdfoutput\endcsname\relax
17 \else
18   \ifnum\pdfoutput>0 %
19     \pdftrue
20   \fi
21 \fi
22 \else
```

LuaTeX.

```
23 \directlua{%
24 if (tex.outputmode or tex.pdfoutput or 0) > 0 then
25   tex.print('\string\\pdftrue')
26 end
27 }
28 \fi
29 ⟨/package⟩
```