pdfT_EX and XML in the Workflow for Conference Proceedings

Volker RW Schaa

Gesellschaft für Schwerionenforschung mbH Darmstadt, Germany

Practical T_EX 2004 Holiday Inn Fisherman's Wharf San Francisco, California July 20, 2004



- Two years ago appointment as Proceedings Editor for two conferences,
- Responsibility for preparation of Abstracts- and Paper-Submissions, and participant data (so-called Affiliations),
- web presentation and conference volume (*Proceedings*)
- size of conferences small, but too large for manual production
 - DIPAC2003 85 papers, 300 pages, 290 authors
 - LINAC2004 450 papers, 1400 pages, ~1200 authors
- existing conference systems in particle physics were examined (DESY/CERN)
 - SRF2003 185 papers, 620 pages, 520 authors
 - EPAC/PAC 1200 papers, 4000 pages, 7500 authors
- Findings:

- just the Web presentation is solved in a satisfactory way,
- no platform independent solutions (»Windows only«),
- use of VB scripts in Paper Submissions for
 - »Hidden Field« entries,
 - page numbering, and
 - header/footer information.
- adaption to speed of used equipment (»wait xxx«)
- creation of Proceedings only manually with word processors (Word, Quark, etc.)
- latest decision: no proceedings as printed copies anymore
- no batch oriented processing,
- sole Open Source component is Perl
- but...

- leveling out to 7-Bit ASCII
- no »special characters« from particle physics
 - e+/e-
 - α, β, λ, . . .
 - big trouble with names like »DAΦNE«
- name handles are non honored (van, von, D', etc.)
- sorting of names based by ASCII rules
- where to look for your name?
 - Bär, before or after Brønsted, and Budyšin?
 - Sørby after Szymborska!
 - and Čemešič?
- mediocre Proceedings (print and structure)
- no navigation in Web Proceedings

starting point

- the idea
 - typesetting: PDFTEX
 - scripting: Perl
 - data: XML
- the method
 - database export in XML
 - interpretation of XML by Perl scripts
 - transformation to <html> and \pdfTEX
- the prerequisites
 - XML structure definitions (as DTD, Schema, RelaxNG, ?)
 - xml database export (native Oracle 9_i, 10_g)
 - Unicode (input problem)

Now a short excursion to XML and STRUCTURE. . .

What kind of structure(s) do we need for a conference?

```
<conference name="...">
  <session name="...">
    <paper code="...">
      <institute ...>
        <author><name>...</><email>...</></author>
        (more »authors«)
      </institute>
      (more »institutes«)
    </paper>
    <paper>...</paper>
    (more »papers«)
  </session>
  (more »sessions«)
</conference>
(more conferences??)
```

XML Definitions for <conference> and <session>

A *conference* consists of several *sessions*. And for a session you need talks $(\mapsto paper)$ or posters $(\mapsto paper)$.

XML Definitions for <paper> and <keywords>

A *paper* consists of several sub-structures: You need a *title* for your paper, and some *keywords*.

And there is always an *institute* you are working for, so you have to be defined as a part of it.

Now you have to define the *institute*, you are part of. Finally your name appears in an *author* structure.

Even your *name* has some structure, and that comes now. . .

As the author preparing the paper, you set the key main to "yes".

And your name consists of lastname and initials (and maybe an email address).

Finally you have to define the *keywords*. Each entry consists of a single line with a given *keyword*.

```
<keywords>
  <keyword>keyword</keyword>
  <keyword>another keyword</keyword>
  (more xml »keyword« structures)
  ...
  (a maximum of »5« keyword structures)
</keywords>
```

Now you are done for Proceedings volume and web presentation...

or even better, everything is done for you by a script from database entries!

What is the script doing?

- It reads pdf-files and counts pages in each file,
- reads XML, and generates <html> for
 - Session List,
 - · Authors' List,
 - Keyword List,
 - Institute List
- generates \pdfTEX wrappers
 - for each single (raw) pdf-file,
 - for proceedings file,
- writes command files for
 - generating pdf-files with Authors and Keyword information,
 - building of proceedings file(s).

Actually built-in features:

- Web pages and proceedings honor special characters,
- Web pages are in Unicode (UTF8),
- All names with accented characters and umlauts,
- Math formulas (in abstracts) on web pages,
- Sorting author names is rule based (accented letters, umlauts, etc....)





feature="Accented Characters"

Applications

Uršič, R.

Paper	Title	Page
PT05	Experience With Sampling Of 500 MHz Rf Signal For Digital Receiver	178

U. Mavrič, S. Bremec, R. Uršič
 I-Tech, Instrumentation Technologies, Solkan, Slovenia

This article will present test results of a prototype system that was built to evaluate feasibility of a direct sampling of a 500 MHz RF signal for use in digital receiver applications. The system consists of a variable gain RF front end, a fast analog to digital converter (ADC) and a field programmable gate array (FPGA) providing glue-logic between the ADC and a PC computer.

Page PM01 Use of Optical Transition Radiation Interferometry for Energy Spread And 89

PM01 Use of Optical Transition Radiation Interferometry for Energy Spread And Divergence Measurements

R.B. Fiorito, A.G. Shkvarunets
 IREAP, Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, MD, USA

OTR interferometry (OTRI) has been shown to be an excellent diagnostic for measuring the rms divergence and emittance of relativistic electron beams when the energy spread $\Delta\gamma/\gamma$ is less than the normalized rms divergence $\sigma=\gamma\Theta_{rms}.$ This is the case for most beams previously diagnosed with OTRI. To extend this diagnostic capability to beams with larger energy spreads, we have calculated the effects of all the parameters effecting the visibility of OTR interferences, V_i i.e. energy spread, angular divergence, the ratio of foil separation to wavelength ratio, d/λ and filter bandpass. We have shown that:

- for a given Δγ/γ, the sensitivity of V to σ is proportional to the observation angle Θ₀, the fringe order n and the ratio d/λ;
- 2. the sensitivity of V to $\Delta\gamma/\gamma$ is independent of Θ_0 and \boldsymbol{n} but is proportional to $d/\lambda.$

Thus, by adjusting d/ λ , and choosing the appropriate fringe order, one can separate out and measure both the energy spread and divergence. However, the filter bandpass must decrease with Θ_0 and \mathbf{n} . Results of our calculations will be given for various beams of interest.

<html>feature="Sorting Order" (i.e. ö ← oe)</html>



Actually built-in features:

- oprinting of header and footer information,
- 2 transfer of all meta-information into pdf-file,
- (down)scale depending on size of crop/media/object-box,
- setting of page numbers after count of all pages,
- author and institute's index with links to articles,
- inclusion of paper or "missing" note,
- config file with settings for directories, sort-rules, and any dependencies etc.

pdfTEX: complete code for one paper

```
\documentclass[twoside]{book}
\usepackage[papersize={595pt,792pt}, body={ 483pt, 680pt},
            top=54pt, left=56pt, head=18pt, headsep=15pt, footskip=32pt]{geometry}
\usepackage{fancyhdr}\pagestyle{fancy}
\begin{document}
\pdfinfo{%
 /Title
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\end{document}
```

»geometry« helps to keep the tight frame

```
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»fancyhdr« prints header and footer information

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\end{document}
```

«html>features</html>
\pdfTEX{features}
Generated script for pdf-file
Summary

»pdfinfo« transfers all meta info into the pdf file

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\end{document}
```

»pdfpages« imbeds the (raw) paper

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```

»\IfFileExists« ensures that there is at least a paper with a note

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```

»pagenumber« is set after checking/counting all pages

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```

»path« information are set in the config file

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»scaling« is determined by maximum of crop/media-box sizes

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               \vfill}
\end{document}
```

«html>features</html>
\pdfTEX{features}
Generated script for pdf-file
Summary

What happens, if you compile this TEX script without the necessary pdf-file?

You only get the "missing" note.

Proceedings DIPAC 2003 - Mainz, Germany PAPER NOT YET RECEIVED Posters Monday PM10 113 What happens, if you compile this TFX script without the necessary pdf-file?

You only get the "missing" note.

The text is configurable in the config file.

And if it's there, you get...

Proceedings DIPAC 2003 - Mainz, Germany

CHARACTERISATION OF FAST FARADAY CUPS AT THE ELETTRA

M. Ferianis, S.Bassanese, G. D'Auria, Sincrotrone Trieste, I-34012 Trieste, Italy C. Deibele, SNS, Oak Ridge, TN, USA M. Popri, INFN-LNL, 1-35020 Legnaro (PD), Italy

Since several years, the Diagnostic Group at Laboratori Nazionali di Lornaro (LNL) has been designing Fast Faraday Cups (FFC) to be used on their Heavy Ion Striction PFC injects developed with the Stufferion Neutron Source (SNS). A collaborative partnership has

been set-up between LNL and the ELETTRA Laboratory to fully characterize new FPCs, using the IGeV electron Linac in operation at the ELETTRA Synchrotron Light Source. Two FFCs, the stripline FFC, built at SNS, and a coaxial PPC, made at LNL, have been installed at ELETTRA who provided the wideband data acquisition and the remote control of the measurement. The first measurements, carried out using a IGHz oscilloscope. have allowed the proper set-up of the instrument remote control as well as a low litter trippering system. synchronous with the injected electrons. Wideband measurements were performed using oscilloscopes with bundwidths up to 20GHz, whereas the bandwidth of the Stripline FFC has been estimated to be roughly 20GHz. A complete set of tests was carried out both on the coaxial FPC and on the stripline FPC. Moreover, thanks

measurements, the Linac working point has been further optimized as well as the injection process into the INTRODUCTION

ELETTRA Storage Ring.

The ELETTRA Linux [1] is in operation since 1992 as injector of the ELETTRA Storage Ring, providing a been used parasitically as a "test facility" both for material irradiation experiments and for testing diagnostic equipments [3]. The characterization of the new Fast Faraday Cups was carried out in the frame of this second

The FPCs, designed to have information on beam temporal structure, have been developed at LNL for The experience rained in that field also yielded a collaboration with the SNS project at Oak Ridge, where a strip line FPC has been developed to measure the bunch length out of the low energy (E:: 2.5MeV of H) section of

The ELETTRA Linac bunching structure in Pier. 1. includes:

 a 500MHz Sub Harmonic Chopper (TM₁₀ deflecting cavity

a 500MHz Buncher (TMos pill box cavity) 3GHz Pro-Buncher (TM pg pill box cavity) 3GHz Buncher (0.4m long 2/35 SW accelerating roll of the total

G:Gun, C::Chonner, PB5:Pre-buncher @500MHz, PB3 Probancher (CVDI): B-Bancher (CVDI):

With a proper setting of the parameters (appolitude and phase of the cavities) this configuration allows to select and fill a pure 500 MHz bucket of the Storage ring, in single bunch mode. This means that at the I insc writ all the charge is commessed in less than I used with a 3 GHz spaced by 330 ms). As we have observed with those

500MHz cavities and the 3GHz ones, it is possible to change the number and the relative amplitude of the S-THE FAST FARADAY CUPS The FPC station, built at LNL and holding the two



The bunching section of the ELETTRA Linux, shown User port at IGeV. The cable of the coaxial FFC is visible in the foreground. On the right hand side, there is the linear translation stage of the Stripline FPC

Posters Monday

PM10

Summary

- the scripts are usable, and tested on DIPAC/LINAC, and EPAC related conference papers and settings,
- translation of special character to Unicode has to be extended
 - actually 65 accented letters,
 - 17 special characters,
 - 113 math symbols, and
 - 39 Greek letters.
- generating wrappers for pdf-files and Web pages is one script at the moment (if you want one, you get the other free)
- I'm going to maintain and extend the scripts, having them checked at a bigger conference (EPAC with 1239 papers)
- the conference database system (SPMS: Scientific Programme Management System) and all scripts will be available under GPL license in September 2004

Some New Scripts for the Wrapper

Volker RW Schaa

Gesellschaft für Schwerionenforschung mbH Darmstadt, Germany

> JACoW Team Meeting, Trieste, Italy, Dec 2003

<advertisement>



</advertisement>

Thank you!

Problems, what's missing, ...

- document internal links are lost when documents are included by pdfpages,
- fast Web Display: not yet,
- (raw) documents must be O.K.,
 - color space (CMYK, RGB, etc.),
 - imbedded fonts,

printing house has no access to embedded XObjects,

- changed behavior of Acrobat (version ≤5: first, version 6: last document info),
- ...



Thank you!



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Practical T_EX 2004 Holiday Inn Fisherman's Wharf San Francisco, California July 20, 2004