

The `sf298` Package*

Steven Douglas Cochran

SVC HS Information Technology, M200 Scaife Hall
3550 Terrace Street
Pittsburgh, PA 15261, USA

`sdc18@pitt.edu`

Peter Andrew Rochford

Acorn Science & Innovation, Inc.
1616 Anderson Road, Suite 213
McLean, VA 22102, USA
`prochford@acornsi.com`

2016/7/7

Abstract

This article documents the L^AT_EX package for generating a completed standard form 298 (Rev. 8/98) as prescribed by ANSI Std. Z39.18 for report documentation, for instance, as part of a document delivered on a U.S. Government contract. The latest revision includes the option of inserting the General Instructions page that typically appears after the form.

Contents

1	Introduction	2
2	The Individual Fields	4
3	SF298 Form	10
4	General Instructions Page	10
5	Configuration	12
5.1	Fonts	12
5.2	Configuration file	12
5.3	“Number of Pages” field	12
5.4	Adjusting the form placement	13

*This paper documents the `sf298` package v1.3, last revised 2016/7/7.

6 An example of use with the <code>article</code> class	13
7 The <code>DOCSTRIP</code> modules	16
8 The code	17
8.1 Identification	17
8.2 Load the <code>totpages</code> package, if it exists.	17
8.3 Load the <code>multicol</code> package.	17
8.4 Load the <code>fancyhdr</code> Package	17
8.5 Create the user interface	17
8.6 Options Processing: Check for a configuration file	20
8.7 Form placement fine tuning	21
8.8 Font definition	21
8.9 Error checking and reporting	22
8.10 Page layout	23
9 Acknowledgments	34

1 Introduction

The `sf298` package provides for creating a filled-in copy of the standard form 298 (Rev. 8/98), “Report Documentation Page” (shown in Figure 1). This form is used in announcing and cataloging reports submitted as deliverables on contracts with the U.S. Government. It is important that the information on the `sf298` page be consistent with the rest of the report, particularly the cover and title page. Instructions for filling in each block of the form are given below. The macro `\MakeRptDocPage` causes the page to be printed. If the `twoside` option is specified in the `documentclass`, then it is printed as a separate page with a blank back. The macro `\GeneralInstructions` causes the page of general instructions that accompanies the form to be printed. This is typically inserted after the `sf298` form.

If you are changing the base font families for your paper (*e.g.*, you load the `times` package to use the PostScript fonts) and you want the fonts used on the `sf298` to change also, then you must change the font families before loading the `sf298` package (see section 5.1).

The package takes two sets of options: The `config` option (default), causes it to check for a configuration file, while `noconfig` disables this check (see section 5.2); The `nofloatlongboxes` option (default) causes the package to generate the fixed standard form, while the `floatlongboxes` option causes boxes 12–15 to distribute their vertical spacing in order to handle special cases such as a very long supplementary note in box 13.

A sample report is given in section 6 that shows one approach to using the `sf298` package.

REPORT DOCUMENTATION PAGE

*Form Approved
OMB No. 0704-0188*

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

1. REPORT DATE (DD-MM-YYYY)		2. REPORT TYPE		3. DATES COVERED (From — To)	
4. TITLE AND SUBTITLE		5a. CONTRACT NUMBER 5b. GRANT NUMBER 5c. PROGRAM ELEMENT NUMBER			
6. AUTHOR(S)		5d. PROJECT NUMBER 5e. TASK NUMBER 5f. WORK UNIT NUMBER			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S) 11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION / AVAILABILITY STATEMENT					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:		17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON 19b. TELEPHONE NUMBER (include area code)	
a. REPORT	b. ABSTRACT	c. THIS PAGE			

Figure 1: Blank Special Form 298 (Report Documentation Page).

2 The Individual Fields

There are nineteen fields, three with multiple sub-fields, on the sf298. The following macros, each having a single argument, define the data to be included in each field. Usually only a few fields will apply to a given report. Table 1 notes which fields are required and which have default values. It also gives an approximate number of lines and characters per line that will fit into each block (for the Computer Modern Roman font family, PostScript Times Roman or other fonts will differ). The best approach to insure that the form is properly filled-in is to preview the page and adjust any fields that appear to have a problem.

A few fields allow a partial extra line along the top of the box. The last two columns of Table 1 shows the offset needed to add such an extra line. To use this extra space, you must already have used up the maximum number of (regular) lines for this field and you must begin the argument with an `\hspace` of the size of the indicated **Skip**. The last **Chars.** column gives the approximate amount of extra characters that you can add.

For those blocks that allow more than one line (see Table 1), the text argument will automatically be broken to fit the box and the paragraph is usually vertically centered and left justified. You can use “\\” (newline) to override the default linebreaking, if desired (see section 5.2 for an example).

Table 1: Field Attributes and Approximate Maximum Size.

Field Number	Macro Name	Required	Default Value ⁽¹⁾	Max Lines	Chars. ⁽⁶⁾ per Line	Extra Space ⁽⁸⁾	
						Skip ⁽⁷⁾	Chars. ⁽⁶⁾
1	\ReportDate	Yes	(2)	1	31	—	—
2	\ReportType	Yes	—	1	46	—	—
3	\DatesCovered	Yes	—	1	39	—	—
4	\Title	Yes	—	7	72	35mm	48
5a	\ContractNumber	—	—	1	46	—	—
5b	\GrantNumber	—	—	1	46	—	—
5c	\ProgramElementNumber	—	—	1	46	—	—
5d	\ProjectNumber	—	—	1	46	—	—
5e	\TaskNumber	—	—	1	46	—	—
5f	\WorkUnitNumber	—	—	1	46	—	—
6	\Author	Yes	—	7	72	22mm	58
7	\PerformingOrg	Yes	—	4	81	—	—
8	\POReportNumber	—	—	4	39	18mm	26
9	\SponsoringAgency	Yes	—	5	81	—	—
10	\Acronym	—	—	2	30	—	—
11	\SMReportNumber	—	—	1	39	23mm	23
12	\DistributionStatement (9)	—	(3)	3	120	70mm	75
13	\SupplementaryNotes (9)	—	—	2	120	45mm	92
14	\Abstract (9)	Yes	—	10	120	22mm	105
15	\SubjectTerms (9)	—	—	3	125	32mm	103
16a	\ReportClassification	Yes	(4)	1	9	—	—
16b	\AbstractClassification	Yes	(4)	1	9	—	—
16c	\PageClassification	Yes	(4)	1	9	—	—
17	\AbstractLimitation	—	(5)	1	12	—	—
18	\NumberPages	Yes	—	1	8	—	—
19a	\ResponsiblePerson	—	—	1	41	—	—
19b	\RPTelephone	—	—	1	41	—	—

Notes:

- (1) All defaults may be overridden by specifying a value. Custom defaults may be assigned using a configuration file (see section 5.2)
- (2) Defaults to the current date (in dd-mm-yyyy format).
- (3) Defaults to “Approved for public release; distribution is unlimited”
- (4) Defaults to “U” (Unclassified)
- (5) Defaults to “UU” (Unclassified Unlimited). otherwise, there is no default (see section 5.3).
- (6) The number of characters is approximate and for the Computer Modern Roman font family only.
- (7) Amount to indent the extra first line, *e.g.* , \Title{\hspace{37mm} ...text...}.
- (8) More text may be placed in these blocks by adjusting the font family or size and/or changing the interline gap (see \PerformingOrg in sections 5.2 and 6 for an example).
- (9) If the floatlongboxes option is set when loading the pacakage, then this box may hold more or less than indicated in this table, however the extra space sizes are still valid.

\ReportDate **1. REPORT DATE.**

Full publication date including day and month, if available. Must cite at least the year and be Year 2000 compliant, *e.g.*

```
\ReportDate{30--06--1998} → 30-06-1998  
\ReportDate{xx--06--1998} → xx-06-1998  
\ReportDate{xx--xx--1998} → xx-xx-1998
```

This field is required, but will default to the current date.

\ReportType **2. REPORT TYPE.**

State the type of report, such as final, technical, interim, memorandum, master's thesis, progress, quarterly, research, special, group study, *etc.* This field is required.

\DatesCovered **3. DATES COVERED.**

Indicate the time during which the work was performed and the report was written, *e.g.*,

```
\DatesCovered{Jun 1997--Jun 1998} → Jun 1997–Jun 1998  
\DatesCovered{1--10 Jun 1996} → 1–10 Jun 1996  
\DatesCovered{May--Nov 1998} → May–Nov 1998  
\DatesCovered{Nov 1998} → Nov 1998
```

The month and year for at least one month are required.

\Title **4. TITLE AND SUBTITLE.**

A title is taken from the part of the report that provides the most meaningful and complete information. When a report is prepared in more than one volume, repeat the primary title, add volume number, and include subtitle for the specific volume. On classified documents enter the title classification in parentheses. This field is required.

\ContractNumber **5a. CONTRACT NUMBER.**

Enter all contract numbers as they appear in the report, *e.g.*

```
\ContractNumber{F33615--86--C--5169} → F33615–86–C–5169
```

\GrantNumber **5b. GRANT NUMBER.**

Enter all grant numbers as they appear in the report, *e.g.*

```
\GrantNumber{AFOSR--82--1234} → AFOSR–82–1234
```

\ProgramElementNumber **5c. PROGRAM ELEMENT NUMBER.**

Enter all program element numbers as they appear in the report, *e.g.*

```
\ProgramElementNumber{61101A} → 61101A
```

\ProjectNumber **5d. PROJECT NUMBER.**

Enter all project numbers as they appear in the report, *e.g.*

\ProjectNumber{1F665702D1257; ILIR} → 1F665702D1257; ILIR

\TaskNumber **5e. TASK NUMBER.**

Enter all task numbers as they appear in the report, *e.g.*

\TaskNumber{05; RF0330201; T4112} → 05; RF0330201; T4112

\WorkUnitNumber **5f. WORK UNIT NUMBER.**

Enter all work unit numbers as they appear in the report, *e.g.*

\WorkUnitNumber{001; AFAPL30480105} → 001; AFAPL30480105

\Author **6. AUTHOR(S).**

Enter name(s) of the person(s) responsible for writing the report, performing the research, or credited with the content of the report. The form of entry is the last name, first name, middle initial, and additional qualifiers separated by commas, *e.g.*

\Author{Smith, Richard, J, Jr} → Smith, Richard, J, Jr

If editor or compiler, this should follow the name(s).

\PerformingOrg **7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES).**

Self-explanatory. This field is one of the best examples of one that may be defined in a configuration file that may be used for many papers. For an example of how to use a configuration file, see section 5.2.

\POReportNumber **8. PERFORMING ORGANIZATION REPORT NUMBER.**

Enter the unique alphanumeric report number(s) assigned by the performing organization, *e.g.*

\POReportNumber{BRL--1234; AFWL--TR--85--4017--Vol21--PT--2}
→ BRL-1234; AFWL-TR-85-4017-Vol21-PT-2

\SponsoringAgency **9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES).**

Enter the name and address of the organization(s) financially responsible for and monitoring the work. If it is desired to place two organizations in this field, then they may be split up in two different ways, the first is to use two 2-line addresses with (for example) a “\\[10pt]” line break after the first address to show both the sponsoring and the monitoring agency addresses. The second method is to place the addresses in a `tabular` environment. An example of both methods is shown below.

```
\SponsoringAgency{%
    U.S. Government Sponsoring Department    \\
    P.O. Box 92919, Miltown, AK 97909--6543 \\[10pt]
    U.S. Army Monitoring Agency    \\
    909 Mission Rd., Somecity, MD 29399--9753}
```

```
\SponsoringAgency{%
\begin{tabular}{@{}l@{\hspace{5mm}}l@{}}
    U.S. Government Sponsoring Dept. & U.S. Government Monitoring Agency \\
    P.O. Box 92919 & 909 Mission Rd. \\
    Miltown, AK 97909--6543 & Somecity, MD 29399--9753
\end{tabular}}
```

These give the following, respectively:

U.S. Government Sponsoring Dept.
P.O. Box 92919, Miltown, AK 97909-6543

U.S. Government Monitoring Agency
909 Mission Rd., Somecity, MD 29399-9753

U.S. Government Sponsoring Dept. U.S. Government Monitoring Agency
P.O. Box 92919 909 Mission Rd.
Miltown, AK 97909-6543 Somecity, MD 29399-9753

\Acronyms 10. SPONSOR/MONITOR'S ACRONYM(S).

Enter any acronym(s) that pertain to the Sponsor/Monitor, separated with commas, if available, *e.g.*

\Acronyms{BRL, ARDEC, NADC} → BRL, ARDEC, NADC

\SMReportNumber 11. SPONSOR/MONITOR'S REPORT NUMBER(S).

Enter the report number(s) as assigned by the sponsoring/monitoring agency, if available, *e.g.*

\SMReportNumber{BRL-TR--829} → BRL-TR-829

\DistributionStatement 12. DISTRIBUTION/AVAILABILITY STATEMENT.¹

Use agency-mandated availability statements to indicated the public availability or distribution limitations of the report. If additional limitations/restrictions

¹The `floatlongboxes` option may shrink or enlarge this box vertically as it equalizes the vertical space for boxes 12–15.

or special markings are indicated follow agency authorization procedures, *e.g.* , RD/FRD, PROPIN, ITAR. Include copyright information. This field is **not** required, but will default to the first of the following examples:

“Approved for public release; distribution is unlimited.”

“Distribution authorized to DoD only; (reason and date). Other requests shall be referred to (controlling DoD office).”

“Further dissemination only as directed by (controlling DoD office and date) or higher DoD authority.”

For DoD — See DoDD 5230.24, “Distribution Statements on Technical Documents.”

For DOE — See authorities.

For NASA — See Handbook NHB 2200.2.

For NTIS — Leave blank.

\SupplementaryNotes **13. SUPPLEMENTARY NOTES.¹**

Enter information not included elsewhere such as: “Prepared in cooperation with...”; “Translation of...”; “To be published in...”. When a report is revised, include a statement whether the new report supersedes or supplements the older report and the older report number if different. ARO requires the following text:

“The views, opinions and/or findings contained in this report are those of the authors and should not be construed as an official Department of Army position, policy or decision, unless so designated by other documentation.”

\Abstract **14. ABSTRACT.¹**

Include a brief (approximately 200 words) factual summary of the most significant information contained in the report. This field is required.

\SubjectTerms **15. SUBJECT TERMS.¹**

Enter keywords or phrases identifying major subjects in the report. Separate key words and phrases with semicolons (;).

\ReportClassification **16a. REPORT SECURITY CLASSIFICATION.**

Enter U.S. Security Classification in accordance with U.S. Security Regulations, *e.g.* U, C, S, etc. If this form contains classified information, stamp classification level on the top and bottom of the page. This field is required, but will default to “U” (Unclassified).

\AbstractClassification **16b. ABSTRACT SECURITY CLASSIFICATION.**

See 16a (above).

\PageClassification **16c. THIS PAGE SECURITY CLASSIFICATION.**

See 16a (above).

\AbstractLimitation **17. LIMITATION OF ABSTRACT.**
This block must be completed to assign a distribution limitation to the abstract. Enter either “UU” (Unclassified Unlimited) or “SAR” (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited. This field is **not** required, but defaults to “UU”.

\NumberPages **18. NUMBER OF PAGES.**
\NumberPages* Enter the total number of pages (including Roman numerals). This field is required. The current implementation of the sf298 package uses the *totpages* package that is now commonly available with standard L^AT_EX distributions or can be easily obtained from Internet accessible package distribution sites such as the The Comprehensive TeX Archive Network (CTAN) (<https://www.ctan.org/>). You may ignore this field and a value will be entered on the page after the processing of the document with L^AT_EX. As with labels and citations referenced in the document, a message will be printed if L^AT_EX must be run again to propagate a correct label value to the sf298 form. If a value is given with this macro, then it **will** be the one used on the form.

There is also a star version of the \NumberPages macro that is only used with the *totpages* package. This adds the given number of pages to the result rather than directly setting the page number. This macro is used when you are inserting a known number of pages, say for an appendix, into the document.

\ResponsiblePerson **19a. NAME OF RESPONSIBLE PERSON.**
Enter the name of the person responsible for submission of the document.

\RPTtelephone **19b. TELEPHONE NUMBER OF RESPONSIBLE PERSON.**
Enter the telephone number of the person responsible for the submission of the document (including area code).

3 SF298 Form

The macro \ReportDescription will insert the standard form 298 on a separate page at the location where it appears. This will produce the Report Documentation page as appears earlier in this document.

4 General Instructions Page

Some government organizations require that a General Instructions page be included after the standard form 298. The macro \GeneralInstructions{typesize} causes the page to be printed according to a generic type size, *e.g.* footnotesize. The typesize argument was implemented to allow the end user control over the print size of the general instructions.

The \GeneralInstructions command need simply be inserted into your L^AT_EX document after the \MakeRptDocPage command. This will result in the following page appearing in the document.

INSTRUCTIONS FOR COMPLETING SF 298

- 1. REPORT DATE.** Full publication date including day, month, and year, if available. Must cite at least the year and be Year 2000 compliant, *e.g.* 30-06-1998; xx-06-1998; xx-xx-1998.
- 2. REPORT TYPE.** State the type of report, such as final, technical, interim, memorandum, master's thesis, progress, quarterly, research, special, group study, etc.
- 3. DATE COVERED.** Indicate the time during which the work was performed and the report was written, *e.g.* , Jun 1997 - Jun 1998; 1-10 Jun 1996; May - Nov 1998; Nov 1998.
- 4. TITLE.** Enter title and subtitle with volume number and part number, if applicable. On classified documents, enter the title classification in parentheses.
- 5a. CONTRACT NUMBER.** Enter all contract numbers as they appear in the report, *e.g.* F33315-86-C-5169.
- 5b. GRANT NUMBER.** Enter all grant numbers as they appear in the report. *e.g.* AFOSR-82-1234.
- 5c. PROGRAM ELEMENT NUMBER.** Enter all program element numbers as they appear in the report, *e.g.* 61101A.
- 5e. TASK NUMBER.** Enter all task numbers as they appear in the report, *e.g.* 05; RF0330201; T4112.
- 5f. WORK UNIT NUMBER.** Enter all work unit numbers as they appear in the report, *e.g.* 001; AFAPL30480105.
- 6. AUTHOR(S).** Enter name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. The form of entry is the last name, first name, middle initial, and additional qualifiers separated by commas, *e.g.* Smith, Richard, J, Jr.
- 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES).** Self-explanatory.
- 8. PERFORMING ORGANIZATION REPORT NUMBER.** Enter all unique alphanumeric report numbers assigned by the performing organization, *e.g.* BRL-1234; AFWL-TR-85-4017-Vol-21-PT-2.
- 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES).** Enter the name and address of the organization(s) financially responsible for and monitoring the work.
- 10. SPONSOR/MONITOR'S ACRONYM(S).** Enter, if available, *e.g.* BRL, ARDEC, NADC.
- 11. SPONSOR/MONITOR'S REPORT NUMBER(S).** Enter report number as assigned by the sponsoring/ monitoring agency, if available, *e.g.* BRL-TR-829; -215.
- 12. DISTRIBUTION/AVAILABILITY STATEMENT.** Use agency-mandated availability statements to indicate the public availability or distribution limitations of the report. If additional limitations/ restrictions or special markings are indicated, follow agency authorization procedures, *e.g.* RD/FRD, PROPIN, ITAR, etc. Include copyright information.
- 13. SUPPLEMENTARY NOTES.** Enter information not included elsewhere such as: prepared in cooperation with; translation of; report supersedes; old edition number, etc.
- 14. ABSTRACT.** A brief (approximately 200 words) factual summary of the most significant information.
- 15. SUBJECT TERMS.** Key words or phrases identifying major concepts in the report.
- 16. SECURITY CLASSIFICATION.** Enter security classification in accordance with security classification regulations, *e.g.* U, C, S, etc. If this form contains classified information, stamp classification level on the top and bottom of this page.
- 17. LIMITATION OF ABSTRACT.** This block must be completed to assign a distribution limitation to the abstract. Enter UU (Unclassified Unlimited) or SAR (Same as Report). An entry in this block is necessary if the abstract is to be limited.

5 Configuration

In order to make the use of the report documentation page as easy as possible, several aspects of the package are automated or can be easily configured.

5.1 Fonts

When the package is loaded it defines the fonts that are used by basing them on the font families `\sfdefault` for the field labels and `\rmdefault` for the text entries. By default, they will be based on the Computer Modern font family. If you are changing the base font families for your paper and you want the fonts used on the `sf298` to change also, then you must change the font families before loading the `sf298` package. See [2, pages 229,236] for more information about the default font families.

For any specific field, you can override the default font by declaring your preferred value along with your entry, *e.g.*

```
\Title{\Huge A Huge Title} → A Huge Title
```

5.2 Configuration file

When the package is loaded, it searches along the standard `TEX` search path, as configured in the system and modified by the `TEXINPUTS` environment variable (or equivalent) for the file `sf298.cfg`. It loads the first such file that it finds and this file may be used to change defaults or make other changes to the `sf298` package, *e.g.*

```
\PerformingOrg{Our Little Laboratory \\[-1pt]2
                  Computer Science Department \\[-1pt]
                  The Big University \\[-1pt]
                  9999 Avenue Street \\[-1pt]
                  Anytown, TX 19293--8765}
```

For an organization, other typical fields for inclusion in the configuration file are `\ResponsiblePerson` and `\RPTTelephone`. For a set of papers that are part of the same contract, you could set the `TEX` search path so that a local version of `sf298.cfg` is loaded that first `\inputs` the more global one and then sets contract specific defaults associated with a single contract, *e.g.* , `\ContractNumber`, `\SponsoringAgency`, `\Acronym`, *etc.*

The option `noconfig` turns off the input of the configuration file. For symmetry, there exists an option `config`, but that is the default and does not need to be specified.

5.3 “Number of Pages” field

The **Number of Pages** field will be automatically filled-in by calculating the difference between the page count of the `sf298` page and the last page. If the `totpages` package is not present, and if the field is not defined, a warning will be issued.

²Note that five lines are fit where only four are recommended in Table 1 by shrinking the `baselineskip` by one point.

If the **Number of Pages** is incorrectly calculated, then the correct value can be explicitly defined with the `\NumberPage` macro or offset by a fixed value with the `\NumberPage*` macro. The former may be needed if the sf298 form is not the first page of the document. An example of the latter is where there is an appendix whose pages are inserted and are, therefore, not automatically counted.

5.4 Adjusting the form placement

`\LeftShift`

`\DownShift` Sometimes you need to adjust the placement of a large form, such as to provide an extra amount of margin space or for a different page size. These two macros allow this fine-tuning: `\LeftShift{5}` will cause the form to be shifted 5 big points to the left.³ The `\DownShift{-8.5}` will cause the form to be shifted up $8\frac{1}{2}$ big points (*i.e.*, down a negative $8\frac{1}{2}$ big points). For example, the following commands will center the sf298 form on A4 paper:

```
\LeftShift{8.5}
\DownShift{-22.0}
```

6 An example of use with the `article` class

This sample program demonstrates how the sf298 package may be used and integrated with an existing class. Here we redefine `\@makefile` so that we can create a titlepage and report documentation page that share a common set of fields, such as the report title, the performing organization title and address and the report abstract.

First we have to start the paper as an `article` with twosided pages and using the sf298 package. We also make the '@' a letter so that we can update some internal names.

```
1 \documentclass[twoside]{article}
2 \usepackage{sf298}
3
4 \setlength{\parindent}{5ex}
5 \setlength{\paperwidth}{8.5in}
6 \setlength{\textwidth}{6.5in}
7 \setlength{\oddsidemargin}{0in}
8 \setlength{\evensidemargin}{0in}
9
10 \makeatletter
```

`\@maketitle` We modify the standard `\@maketitle` so that the title and author's address (from the internal `\sf@PerformingOrg` value) are integrated into the standard titlepage layout. This may not always be the best approach, since the blocks may contain different internal layout information on the title page and on the report documentation page. Here, the `\@date` macro is used for the date rather than `\sf@ReportDate` and similarly for the author's names, since the desired format is

³Note that there are no units here, the unit step is defined as one big point (1 bp) at the beginning of the `\MakeRptDocPage` command above by setting the `\unitlength`.

different for these fields, even though the information is the same. Another way to do the same thing is to define the macro to parse and format these values as desired in each case.

As much as possible, a document class that generates both a titlepage and the report documentation page (sf298) should allow the common information to be entered only once.

```

11 \renewcommand{\@maketitle}{%
12   \newpage
13   \null
14   \vskip 2em%
15   \begin{center}%
16   \let\footnote\thanks
17   {\LARGE\sffamily\@Title\par}%
18   \vskip 1.5em%
19   {\large
20     \lineskip .5em%
21     \begin{tabular}[t]{c}%
22       \author{\bf [10pt]}
23       \sf@PerformingOrg
24     \end{tabular}\par}%
25   \vskip 1em%
26   {\large\@date}%
27 \end{center}%
28 \par
29 \vskip 1.5em}

```

\showabstract The next macro, `\showabstract` shows one method of pulling the abstract text out of the internal (“hidden”) define, in order to include it on the titlepage as we show in the accompanying `sample298.txt` file. We just have to make sure that we use it before making the report documentation page, since this data is thrown away after that.

```

30 \newcommand{\showabstract}{%
31   \noindent
32   \sf@Abstract}

```

We are finished with our example integration, so we close off changing the internals and make ‘@’ an “other” once more.

```
33 \makeatother
```

Now we fill in the fields needed for the title and the report documentation pages. For reference as a template, we have entered all of the sf298 block macros below. The ones that are not being used are commented out. Note that although block 7 (Performing Organization Name) is rated at four lines according to Table 1, we can fit five lines if we compress them a little. Depending on your base font family and such small adjustments, you can probably fit any reasonable set of information onto this form in the way that you want to.

```

34 \date{June 1996}
35 \ReportDate{10--06--1996}
36 \ReportType{Final}
37 \DatesCovered{1 June 1996 --- 31 May 1999}

```

```

38 \Title{Final Report Title\thanks{We wish to thank all those who helped with
39                               this project. The views and conclusions contained
40                               in this document are those of the authors and should
41                               not be interpreted as representing anyone else.}}
42 \ContractNumber{DACA99--99--C--9999}
43 \%GrantNumber{}
44 \%ProgramElementNumber{}
45 \%ProjectNumber{}
46 \%TaskNumber{}
47 \%WorkUnitNumber{}
48 \author{Joe A. Uuthor and Jane E. Ditor}
49 \Author{Uuthor, Joe, A., and Ditor, Jane, E.}
50 \PerformingOrg{%
51   Our Little Laboratory\\[-1pt]
52   Computer Science Department\\[-1pt]
53   The Big University\\[-1pt]
54   9999 Avenue Street\\[-1pt]
55   Anytown, TX 19293--8765}
56 \%PReportNumber{}
57 \SponsoringAgency{%
58   U.S. Army Sponsoring Department\\
59   P.O. Box 92919, Miltown, AK 97909--6543\\[10pt]
60   U.S. Army Monitoring Agency\\
61   909 Mission Rd., Somecity, MD 29399--9753}
62 \%Acronyms{}
63 \%SMReportNumber{}
64 \%DistributionStatement{}
65 \SupplementaryNotes{%
66   The views, opinions and/or findings contained in this report are
67   those of the authors and should not be construed as an official
68   U.S.\ Government position, policy or decision, unless so designated
69   by other documentation.}
70 \Abstract{%
71   This sample paper shows one way to use the sf298 package along with
72   the article documentclass to generate a paper with the standard form 298
73   as the second physical page in the document.
74
75   In addition, the common text of the title, authors and abstract are
76   shared and the ``{\tt \string\thanks}'' macro is treated specially so
77   that it is active for the titlepage and inactive for the report
78   documentation page.}
79 \SubjectTerms{keywords; associated words; other words}
80 \%NumberPages{}
81 \%ReportClassification{}
82 \%PageClassification{}
83 \%AbstractClassification{}
84 \AbstractLimitation{UU}
85 \ResponsiblePerson{Mr.\ Joe A. Uuthor}
86 \RPTTelephone{(412) 555--9999}

```

Finally we begin a very simple report. First we print the titlepage and the abstract. Next the report documentation and general instructions pages are written.

Following these two pages, the table of contents is output, followed by the very short report.

```
87 \begin{document}
88 \pagenumbering{roman}
89
90 \maketitle\thispagestyle{empty}
91 \begin{abstract}
92 \showabstract
93 \end{abstract}
94
95 \ReportDescription
96
97 \GeneralInstructions{small}
98
99 \tableofcontents
100 \cleardoublepage
101 \pagenumbering{arabic}
102 \setcounter{page}{1}
103
104 \section{Introduction}
105
106 Blah, blah and blah.
107
108 \section{Conclusion}
109
110 More blah, blah and blah.
111
112 \end{document}
```

7 The DOCSTRIP modules

The following modules are used in the implementation to direct DOCSCRIPT in generating the external files:

driver	produces a documentation driver file.
package	produces the package sf298.sty.
sample	produces a sample L ^A T _E X template and test file.

8 The code

8.1 Identification

```
113 \NeedsTeXFormat{LaTeX2e}
114 \ProvidesPackage{sf298}[2016/07/07 Standard Form 298]
115 \typeout{Package: sf298 2016/07/07 v1.3}
116 \providecommand{\eg}{\it e.g.\/}
```

8.2 Load the **totpages** package, if it exists.

\sf@page Check to see if the **totpages** package is present. If it is, then load the package and create a local page counter for use in calculating the actual total pages.

```
117 \IfFileExists{totpages.sty}{%
118   \usepackage{totpages}
119   \newcounter{sf@page}}
```

8.3 Load the **multicol** package.

Check to see if the **multicol** package is present. If it is, then load the package to support multi-column formatting for the General Instructions page. If it is not present then report error and terminate.

```
120 \IfFileExists{multicol.sty}{%
121   \usepackage{multicol}}
122 {\PackageError{sf298}{The multicol package was not found.}%
123 {Install the multicol package on your system.}}
```

8.4 Load the **fancyhdr** Package

Check to see if the **fancyhdr** package is present. If it is, then load the package to define a custom footer. If it is not present then report error and terminate. This package is needed to define a custom footer where the form identifier appears on the General Instructions produced by \GeneralInstructions.

```
124 \IfFileExists{fancyhdr.sty}{%
125   \usepackage{fancyhdr}}
126 {\PackageError{sf298}{The fancyhdr package was not found.}%
127 {Install the fancyhdr package on your system.}}
```

8.5 Create the user interface

The following macros define the external and internal portions of the user interface. These macros are used to fill the various blocks of the form. All but one of the macros have the same pattern: a public version which sets the internal value, both based on the block name. The exception is the **\NumberPages** macro that has a starred form for special use when the **totpages** when the page count is calculated automatically (see below).

```
\ReportDate
\sf@ReportDate 128 \newcommand{\ReportDate}[1]{\renewcommand{\sf@ReportDate}{#1}}
129 \newcommand{\sf@ReportDate}{\number\day--\number\month--\number\year}
```

```

    \ReportType
\sf@ReportType 130 \newcommand\ReportType[1]{\renewcommand\sf@ReportType{\#1}}
                131 \newcommand\sf@ReportType{\relax}

    \DatesCovered
\sf@DatesCovered 132 \newcommand\DatesCovered[1]{\renewcommand\sf@DatesCovered{\#1}}
                  133 \newcommand\sf@DatesCovered{\relax}

    \Title
\sf@Title 134 \newcommand>Title[1]{\renewcommand\sf@Title{\#1}}
           135 \newcommand\sf@Title{\relax}

    \ContractNumber
\sf@ContractNumber 136 \newcommand\ContractNumber[1]{\renewcommand\sf@ContractNumber{\#1}}
                     137 \newcommand\sf@ContractNumber{\relax}

    \GrantNumber
\sf@GrantNumber 138 \newcommand\GrantNumber[1]{\renewcommand\sf@GrantNumber{\#1}}
                 139 \newcommand\sf@GrantNumber{\relax}

    \ProgramElementNumber
\sf@ProgramElementNumber 140 \newcommand\ProgramElementNumber[1]{\renewcommand\sf@ProgramElementNumber{\#1}}
                         141 \newcommand\sf@ProgramElementNumber{\relax}

    \ProjectNumber
\sf@ProjectNumber 142 \newcommand\ProjectNumber[1]{\renewcommand\sf@ProjectNumber{\#1}}
                   143 \newcommand\sf@ProjectNumber{\relax}

    \TaskNumber
\sf@TaskNumber 144 \newcommand\TaskNumber[1]{\renewcommand\sf@TaskNumber{\#1}}
                145 \newcommand\sf@TaskNumber{\relax}

    \WorkUnitNumber
\sf@WorkUnitNumber 146 \newcommand\WorkUnitNumber[1]{\renewcommand\sf@WorkUnitNumber{\#1}}
                    147 \newcommand\sf@WorkUnitNumber{\relax}

    \Author
\sf@Author 148 \newcommand\Author[1]{\renewcommand\sf@Author{\#1}}
            149 \newcommand\sf@Author{\relax}

    \PerformingOrg
\sf@PerformingOrg 150 \newcommand\PerformingOrg[1]{\renewcommand\sf@PerformingOrg{\#1}}
                   151 \newcommand\sf@PerformingOrg{\relax}

    \POReportNumber
\sf@POReportNumber 152 \newcommand\POReportNumber[1]{\renewcommand\sf@POReportNumber{\#1}}
                     153 \newcommand\sf@POReportNumber{\relax}

    \SponsoringAgency
\sf@SponsoringAgency 154 \newcommand\SponsoringAgency[1]{\renewcommand\sf@SponsoringAgency{\#1}}
                      155 \newcommand\sf@SponsoringAgency{\relax}

```

```

    \Acronyms
\sf@Acronyms 156 \newcommand\Acronyms[1]{\renewcommand\sf@Acronyms{\#1}}
               157 \newcommand\sf@Acronyms{\relax}

    \SMReportNumber
\sf@SMReportNumber 158 \newcommand\SMReportNumber[1]{\renewcommand\sf@SMReportNumber{\#1}}
                     159 \newcommand\sf@SMReportNumber{\relax}

    \DistributionStatement
\sf@DistributionStatement 160 \newcommand\DistributionStatement[1]{%
                           \renewcommand\sf@DistributionStatement{\#1}}
                           162 \newcommand\sf@DistributionStatement{Approval for public release;
                           distribution is unlimited.}
                           163

    \SupplementaryNotes
\sf@SupplementaryNotes 164 \newcommand\SupplementaryNotes[1]{\renewcommand\sf@SupplementaryNotes{\#1}}
                        165 \newcommand\sf@SupplementaryNotes{\relax}

    \Abstract
\sf@Abstract 166 \newcommand\Abstract[1]{\renewcommand\sf@Abstract{\#1}}
              167 \newcommand\sf@Abstract{\relax}

    \SubjectTerms
\sf@SubjectTerms 168 \newcommand\SubjectTerms[1]{\renewcommand\sf@SubjectTerms{\#1}}
                  169 \newcommand\sf@SubjectTerms{\relax}

    \ReportClassification
\sf@ReportClassification 170 \newcommand\ReportClassification[1]{\renewcommand\sf@ReportClassification{\#1}}
                         171 \newcommand\sf@ReportClassification{U}

    \AbstractClassification
\sf@AbstractClassification 172 \newcommand\AbstractClassification[1]{%
                           \renewcommand\sf@AbstractClassification{\#1}}
                           173 \newcommand\sf@AbstractClassification{\relax}
                           174 \newcommand\sf@AbstractClassification{U}

    \PageClassification
\sf@PageClassification 175 \newcommand\PageClassification[1]{\renewcommand\sf@PageClassification{\#1}}
                       176 \newcommand\sf@PageClassification{U}

    \AbstractLimitation
\sf@AbstractLimitation 177 \newcommand\AbstractLimitation[1]{\renewcommand\sf@AbstractLimitation{\#1}}
                      178 \newcommand\sf@AbstractLimitation{UU}

    \ResponsiblePerson
\sf@ResponsiblePerson 179 \newcommand\ResponsiblePerson[1]{\renewcommand\sf@ResponsiblePerson{\#1}}
                      180 \newcommand\sf@ResponsiblePerson{\relax}

    \RPTTelephone
\sf@RPTTelephone 181 \newcommand\RPTTelephone[1]{\renewcommand\sf@RPTTelephone{\#1}}
                  182 \newcommand\sf@RPTTelephone{\relax}

```

- \NumberPages The \NumberPages macro that has a both a regular form (\NumberPages) that is used when setting the number of pages, and a starred form (\NumberPages*) that is used to offset the automatically calculated number of pages calculated using the `totpages` package. The value supplied by the starred form is added to account for inserted pages that are not part of the L^AT_EX paper. For instance, when you are inserting a known number of pages from an alternative source, say for an appendix, into the document.

The \NumberPages macro looks ahead for an asterisk and if it finds one, then it “eats” it and passes the argument to the internal \sf@SNumberPages macro where it is stored for later use to with the total pages calculation. Otherwise, it sends the argument to the \sf@NNumberPages macro where it becomes the actual page number.

```

183 \newcommand{\NumberPages}{%
184   \@ifnextchar *{%
185     {\def\@tempa*{\sf@SNumberPages}%
186      \@tempa}%
187     {\sf@NNumberPages}}}

\sf@NNumberPages
\sf@NumberPages 188 \newcommand{\sf@NNumberPages}[1]{\renewcommand{\sf@NumberPages}{#1}}
189 \newcommand{\sf@NumberPages}{\relax}

\sf@SNumberPages
\sf@ExtraPages 190 \newcommand{\sf@SNumberPages}[1]{\renewcommand{\sf@ExtraPages}{#1}}
191 \newcommand{\sf@ExtraPages}{0}

\fancypagestyle The macro \fancypagestyle{sf298FormIDStyle} is defined so the form identifier
for the General Instructions page can be placed at the bottom of the page, namely
“Standard Form 298 Back (Rev. 8/98)”.
192 \fancypagestyle{sf298FormIDStyle}
193 {\fancyhf{} \renewcommand{\headrulewidth}{0pt}
194 \fancyfoot[R]{\footnotesize \bfseries Standard Form 298 Back} (Rev.\ 8/98)} }

```

8.6 Options Processing: Check for a configuration file

First we define a switch that we can set with the optional arguments and then declare the optional arguments themselves.

```

195 \DeclareOption{config}{\def\sf@config{Y}}
196 \DeclareOption{noconfig}{\def\sf@config{N}}

```

Second, we define an option that floats the four long boxes near the bottom of the page. This allows for more flexibility in the layout without greatly modifying the standard form.

```

197 \newif\ifsf@floatlongboxes
198 \DeclareOption{floatlongboxes}{\sf@floatlongboxestrue}
199 \DeclareOption{nofloatlongboxes}{\sf@floatlongboxesfalse}

```

Next we process the optional arguments. We set the default to read the configuration file and process any options to allow the user to turn it off. Then, depending on the current value of the configuration switch, we check for the configuration file.

```
200 \ExecuteOptions{config,nofloatlongboxes}
201 \ProcessOptions

202 \if Y\sf@config
203   \InputIfFileExists{sf298.cfg}{}{}
204 \fi
205 \let\sf@config\relax
```

8.7 Form placement fine tuning

- \LeftShift These two macros allow the user to set any offset for the form. This allows fine tuning of the form placement as necessary.
- \DownShift

```
206 \newcommand{\LeftShift}[1]{\renewcommand{\sf@LeftShift}{#1}}
207 \newcommand{\sf@LeftShift}{0}

208 \newcommand{\DownShift}[1]{\renewcommand{\sf@DownShift}{#1}}
209 \newcommand{\sf@DownShift}{0}
```

8.8 Font definition

- \sf@setfont This macro is used to set the baseline and insure that the interword spacing has not been changed by evil outside influences when typesetting the form titles and entries.

```
210 \newcommand{\sf@setfont}[2]{%
211   \renewcommand{\baselinestretch}{1.0}%
212   \setlength{\baselineskip}{#2}%
213   \setlength{\normalbaselineskip}{\baselineskip}%
214   #1
215   \spaceskip=\fontdimen2\font % space between words (\raggedright)
216   \xspaceskip=\fontdimen2\font
217   \advance\xspaceskip by\fontdimen7\font}
```

- \sf@strut This strut is added at the beginning of each block title to place the title text at the desired offset from the upper left corner of the block.

```
218 \newcommand{\sf@strut}{\rule{0pt}{7pt}}
```

- \sf@titlefontA The form headings are set with Sans Serif at 14-, 11-, 8-, and 6-point sizes and a couple of different shapes and sizes. Each font is actually set by the related \sf@titlefont? macro which switches to the indicated fixed font, sets the new baseline and protects the text from external settings. The actual font family used depends on the current setting of \sfdefault [2, pages 229,236].
- \sf@setttitlefontA
- \sf@titlefontB
- \sf@setttitlefontB
- \sf@titlefontC
- \sf@setttitlefontC
- \sf@titlefontD
- \sf@setttitlefontD
- \sf@titlefontE
- \sf@setttitlefontE
- \sf@titlefontF
- \sf@setttitlefontF

```

223 \DeclareFixedFont{\sf@titlefontC}{OT1}{\sfdefault}{m}{n}{\@vipt}
224 \newcommand{\sf@settitlefontC}{\sf@setfont{\sf@titlefontC}{7pt}}
225 \DeclareFixedFont{\sf@titlefontD}{OT1}{\sfdefault}{bx}{n}{\@vipt}
226 \newcommand{\sf@settitlefontD}{\sf@setfont{\sf@titlefontD}{7pt}}
227 \DeclareFixedFont{\sf@titlefontE}{OT1}{\sfdefault}{bx}{n}{\@viiipt}
228 \newcommand{\sf@settitlefontE}{\sf@setfont{\sf@titlefontE}{9.5pt}}
229 \DeclareFixedFont{\sf@titlefontF}{OT1}{\sfdefault}{m}{s1}{\@viiipt}
230 \newcommand{\sf@settitlefontF}{\sf@setfont{\sf@titlefontF}{9.5pt}}

```

\sf@entryfont The form is filled in with Roman 10-point text. This insures that the text will reasonably fit in the form boxes and will not vary with the choice of the normal fontsize of the document. As with the title fonts, above, the entry font is actually set by the related \setentryfont macro. The actual font family used depends on the current setting of \rmdefault [2, pages 229,236].

```

231 \DeclareFixedFont{\sf@entryfont}{OT1}{\rmdefault}{m}{n}{\@xpt}
232 \newcommand{\sf@setentryfont}{\sf@setfont{\sf@entryfont}{11pt}}

```

\sf@revfontbold The form identifiers are filled in with Sans Serif at 9-point size to match the appearance of the form as publicly distributed in Portable Data Format (PDF) by the United States Government. Separate fonts are specified for the bold and non-bold portions of the identifiers.

```

233 \DeclareFixedFont{\sf@revfontbold}{OT1}{\sfdefault}{bx}{n}{9pt}
234 \newcommand{\sf@setrevfontbold}{\sf@setfont{\sf@revfontbold}{10pt}}
235 \DeclareFixedFont{\sf@revfont}{OT1}{\sfdefault}{m}{n}{9pt}
236 \newcommand{\sf@setrevfont}{\sf@setfont{\sf@revfont}{10pt}}

```

8.9 Error checking and reporting

\ifsf@undef This switch is used by the error reporting at the end of the document to generate a general message that there was an undefined required field.

```

\sf@undeftrue 237 \newif\ifsf@undef
\sf@undeffalse 238 \sf@undeffalse

```

\sf@undefined The \sf@undefined macro is executed with the optional argument for each required field and without the optional argument at the end of the document.

```

239 \newcommand{\sf@undefined}[1][\emptyset]{%
240   \ifx \emptyset#1\relax
241     \ifsf@undef
242       \typeout{^J%
243         SF298 Warning: There are required fields that are undefined.%}
244       ^J}%
245     \fi
246   \else
247     \sf@undeftrue
248     \typeout{^J%
249       SF298 Warning: \expandafter\string\csname #1\endcsname\space
250       is undefined.%}
251       ^J}%
252   \fi}

```

- \sf@checkfield This macro does the actual checking for undefined required fields. Because of the different sorts of field definitions that could be created, it was easier to just fill a box with whatever the user defined and check to see if the box has a non-zero width. You could defeat this if you really wanted to, but it should work for reasonable field values.

```

253 \newcommand{\sf@checkfield}[1]{%
254   \setbox\@tempboxa\vbox{\csname sf@\#1\endcsname}%
255   \ifdim \wd\@tempboxa =0pt
256     \sf@undefined[#1]
257   \fi}
258 \AtEndDocument{\sf@undefined}

```

8.10 Page layout

This is the part of the code that actually sets up the form page and draws the form. After the form is drawn, most of the macros are set to \relax in order to recover as much pool space as possible.

8.10.1 Form setup and cleanup

- \ReportDescription At the end of the \titlepage command, the \thanks macro is redefined to be \relax. If we want to define the title once and also want to be able to have a \thanks message associated with the title on the titlepage, and want to use that same title text on the report documentation page, then we need to redefine the \thanks macro to eat it's argument. This is done by setting \thanks to \gobble while printing the report documentation page.

```

259 \newcommand{\ReportDescription}{%
260   \global\let\thanks\gobble
261   \MakeRptDocPage
262   \global\let\thanks\relax}

```

- \MakeRptDocPage The \MakeRptDocPage command creates the Report Documentation Page using the information defined by the associated field macros. This should be used at the beginning of a deliverable report just after the cover or title page and counts as the first actual page of the document.

```
263 \newcommand{\MakeRptDocPage}{%
```

If the twoside option is specified in the \documentclass, then it is printed as a separate page with a blank back. This page is treated as page '*i*' (if the documentclass twoside option is specified, then the back treated as page '*ii*'.

```

264   \newpage
265   \if@twoside\ifodd\c@page\else
266     \null
267     \thispagestyle{empty}%
268     \newpage
269   \fi\fi

```

Check for missing required fields. If the field value is missing, then print a warning. In the case of the number of pages, if the `totpages` package was loaded, then calculate the value, else if the total pages is not given, then give a warning.

```

270  \sf@checkfield{ReportDate}
271  \sf@checkfield{ReportType}
272  \sf@checkfield{DatesCovered}
273  \sf@checkfield{Title}
274  \sf@checkfield{Author}
275  \sf@checkfield{PerformingOrg}
276  \sf@checkfield{SponsoringAgency}
277  \sf@checkfield{Abstract}
278  \sf@checkfield{ReportClassification}
279  \sf@checkfield{AbstractClassification}
280  \sf@checkfield{PageClassification}
281  \sf@checkfield{AbstractLimitation}

282  \edef@\tempa{\sf@NumberPages}%
283  \edef@\tempa{\expandafter@car@\tempa \c@nil}%
284  \if \relax@\tempa\relax
285    \c@ifundefined{c@TotPages}%
286      {\sf@undefined[NumberPages]}
287      {\c@ifundefined{r@TotPages}%
288        {\renewcommand{\sf@NumberPages}{\bf ??}}%
289        {\setcounter{sf@page}{\expandafter\c@ar@r@TotPages\c@nil}%
290         \addtocounter{sf@page}{-\value{TotPages}}%
291         \addtocounter{sf@page}{\sf@ExtraPages}%
292         \renewcommand{\sf@NumberPages}{\arabic{sf@page}}}}
293  \fi

```

Next we make this page number one of the document and draw the form on an $8\frac{1}{2} \times 11$ inch letter-size page and all offsets in the actual form layout are in pixels from the lower-left corner of the picture box as defined by the `\sf@drawform` macro. When we close off the boxes, we allow the form to expand beyond the zero sized box. This keeps L^AT_EX from issuing warnings about overfull boxes.

```

294  \setcounter{page}{1}%
295  \thispagestyle{empty}
296  \vbox to Opt{%
297    \c@tempskipa 34pt
298    \advance\c@tempskipa\voffset
299    \advance\c@tempskipa\topmargin
300    \advance\c@tempskipa\headheight
301    \advance\c@tempskipa\headsep
302    \advance\c@tempskipa\baselineskip
303    \vskip-\c@tempskipa
304    \hbox to Opt{%
305      \c@tempskipa\oddsidemargin
306      \advance\c@tempskipa 42pt
307      \hskip-\c@tempskipa
308      \sf@drawform
309      \hss}%
310      \vss}%

```

The page is now done, so, if the documentclass `twoside` option is specified, generate a blank page for its back, which counts as page ‘*ii*’).

```
311  \newpage
312  \if@twoside
313    \null
314    \thispagestyle{empty}%
315    \newpage
316  \fi
```

Finally, the last step is to set all of the now unused definitions to `\relax`, thereby freeing some space.

```
317  \global\let\ReportDate\relax
318  \global\let\sf@ReportDate\relax
319  \global\let\ReportType\relax
320  \global\let\sf@ReportType\relax
321  \global\let\DatesCovered\relax
322  \global\let\sf@DatesCovered\relax
323  \global\let>Title\relax
324  \global\let\sf@Title\relax
325  \global\let\ContractNumber\relax
326  \global\let\sf@ContractNumber\relax
327  \global\let\GrantNumber\relax
328  \global\let\sf@GrantNumber\relax
329  \global\let\ProgramElementNumber\relax
330  \global\let\sf@ProgramElementNumber\relax
331  \global\let\ProjectNumber\relax
332  \global\let\sf@ProjectNumber\relax
333  \global\let\TaskNumber\relax
334  \global\let\sf@TaskNumber\relax
335  \global\let\WorkUnitNumber\relax
336  \global\let\sf@WorkUnitNumber\relax
337  \global\let\Author\relax
338  \global\let\sf@Author\relax
339  \global\let\PerformingOrg\relax
340  \global\let\sf@PerformingOrg\relax
341  \global\let\POReportNumber\relax
342  \global\let\sf@POReportNumber\relax
343  \global\let\SponsoringAgency\relax
344  \global\let\sf@SponsoringAgency\relax
345  \global\let\Acronyms\relax
346  \global\let\sf@Acronyms\relax
347  \global\let\SMReportNumber\relax
348  \global\let\sf@SMReportNumber\relax
349  \global\let\DistributionStatement\relax
350  \global\let\sf@DistributionStatement\relax
351  \global\let\SupplementaryNotes\relax
352  \global\let\sf@SupplementaryNotes\relax
353  \global\let\Abstract\relax
354  \global\let\sf@Abstract\relax
355  \global\let\SubjectTerms\relax
356  \global\let\sf@SubjectTerms\relax
357  \global\let\ReportClassification\relax
```

```

358 \global\let\sf@ReportClassification\relax
359 \global\let\AbstractClassification\relax
360 \global\let\sf@AbstractClassification\relax
361 \global\let\PageClassification\relax
362 \global\let\sf@PageClassification\relax
363 \global\let\AbstractLimitation\relax
364 \global\let\sf@AbstractLimitation\relax
365 \global\let\ResponsiblePerson\relax
366 \global\let\sf@ResponsiblePerson\relax
367 \global\let\RPTTelephone\relax
368 \global\let\NumberPages\relax
369 \global\let\sf@NNumberPages\relax
370 \global\let\sf@NumberPages\relax
371 \global\let\sf@SNumberPages\relax
372 \global\let\sf@ExtraPages\relax
373 \global\let\LeftShift\relax
374 \global\let\sf@LeftShift\relax
375 \global\let\DownShift\relax
376 \global\let\sf@DownShift\relax
377 \global\let\sf@RPTTelephone\relax
378 \global\let\sf@setfont
379 \global\let\sf@strut\relax
380 \global\let\sf@titlefontA\relax
381 \global\let\sf@settitlefontA\relax
382 \global\let\sf@titlefontB\relax
383 \global\let\sf@settitlefontB\relax
384 \global\let\sf@titlefontC\relax
385 \global\let\sf@settitlefontC\relax
386 \global\let\sf@titlefontD\relax
387 \global\let\sf@settitlefontD\relax
388 \global\let\sf@titlefontE\relax
389 \global\let\sf@settitlefontE\relax
390 \global\let\sf@titlefontF\relax
391 \global\let\sf@settitlefontF\relax
392 \global\let\sf@entryfont\relax
393 \global\let\sf@setentryfont\relax
394 \global\let\sf@revfontbold\relax
395 \global\let\sf@setrevfontbold\relax
396 \global\let\sf@revfont\relax
397 \global\let\sf@setrevfont\relax
398 \global\let\sf@checkfield\relax
399 \global\let\sf@parbox\relax
400 \global\let\sf@drawform\relax
401 \global\let\MakeRptDocPage\relax}

```

8.10.2 Form layout

\sf@parbox This macro is used in the following \sf@drawform to contain fields that are to be centered in a block, but expand upward when overfull.

```

402 \def\sf@parbox(#1,#2){%
403   \makebox(0,0)[bl]{%
404     \vbox to #1\unitlength{%

```

```

405      \vss
406      \noindent
407      \parbox{#2\unitlength}{\raggedright#3}%
408      \vfil}}}

\sf@drawform First draw the boxes of the form as a large thick-walled box with a series of thin
               horizontal and vertical lines.

409 \newcommand{\sf@drawform}{%
410   \sf@setentryfont
411   \setlength{\unitlength}{1bp}
412   \begin{picture}(539,707)(\sf@LeftShift,\sf@DownShift)
413     % Draw blank form
414     \linethickness{1bp}%
415     \put( 0, 0){\framebox(539,707){}}
416     % Horizontal lines
417     \linethickness{0.5bp}%
418     \put( 0,677){\line(1,0){539}}
419     \put( 0,635){\line(1,0){539}}
420     \put( 0,611){\line(1,0){539}}
421     \put(324,581){\line(1,0){215}}
422     \put(324,551){\line(1,0){215}}
423     \put( 0,521){\line(1,0){539}}
424     \put(324,491){\line(1,0){215}}
425     \put(324,461){\line(1,0){215}}
426     \put( 0,431){\line(1,0){539}}
427     \put( 0,372){\line(1,0){539}}
428     \put(359,336){\line(1,0){180}}
429     \put( 0,300){\line(1,0){539}}
430     \ifsf@floatlongboxes\else
431       \put( 0,252){\line(1,0){539}}
432       \put( 0,215){\line(1,0){539}}
433       \put( 0, 95){\line(1,0){539}}
434     \fi
435     \put( 0, 48){\line(1,0){539}}
436     \put( 0, 36){\line(1,0){180}}
437     \put(324, 24){\line(1,0){215}}
438     % Vertical lines
439     \put(359,707){\line(0,-1){ 30}}
440     \put(144,635){\line(0,-1){ 24}}
441     \put(359,635){\line(0,-1){ 24}}
442     \put(324,611){\line(0,-1){180}}
443     \put(359,431){\line(0,-1){131}}
444     \put(180, 48){\line(0,-1){ 48}}
445     \put(266, 48){\line(0,-1){ 48}}
446     \put(324, 48){\line(0,-1){ 48}}
447     \put( 60, 36){\line(0,-1){ 36}}
448     \put(120, 36){\line(0,-1){ 36}}

```

Next, fill in the individual box titles. Note the use of the `\sf@strut` to set the block titles a little down and to the right of the absolute corner of the box.

```

449   % Title text
450   \put( 0,677){\makebox(359, 30){%}

```

```

451      \sf@settitlefontA REPORT DOCUMENTATION PAGE}}
452      \put(359,677){\makebox(180, 30){%
453          \sf@settitlefontB\shortstack[c]{%
454              Form Approved\\[-2pt]%
455              OMB No. 0704--0188}}}
456      \put( 3,635){\makebox(533, 42){%
457          \sf@settitlefontC\parbox{533bp}{\raggedright
458              The public reporting burden for this collection of information
459              is estimated to average 1 hour per response, including the
460              time for reviewing instructions, searching existing data
461              sources, gathering and maintaining the data needed, and
462              completing and reviewing the collection of information.
463              Send comments regarding this burden estimate or any other
464              aspect of this collection of information, including
465              suggestions for reducing this burden to Department of
466              Defense, Washington Headquarters Services, Directorate for
467              Information Operations and Reports (0704--0188), 1215
468              Jefferson Davis Highway, Suite 1204, Arlington, VA
469              22202--4302. Respondents should be aware that
470              notwithstanding any other provision of law, no person shall
471              be subject to any penalty for failing to comply with a
472              collection of information if it does not display a currently
473              valid OMB control number.
474          \sf@settitlefontD
475              PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.}}}
476      \put( 0,611){\makebox(144, 24)[t1]{%
477          \sf@settitlefontE\sf@strut 1.\ REPORT DATE
478          \sf@settitlefontF (DD--MM--YYYY)}}
479      \put(144,611){\makebox(215, 24)[t1]{%
480          \sf@settitlefontE\sf@strut 2.\ REPORT TYPE}}
481      \put(359,611){\makebox(180, 24)[t1]{%
482          \sf@settitlefontE\sf@strut 3.\ DATES COVERED
483          \sf@settitlefontF (From --- To)}}
484      \put( 0,521){\makebox(324,90)[t1]{%
485          \sf@settitlefontE\sf@strut 4.\ TITLE AND SUBTITLE}}
486      \put(324,581){\makebox(215, 30)[t1]{%
487          \sf@settitlefontE\sf@strut 5a.\ CONTRACT NUMBER}}
488      \put(324,551){\makebox(215, 30)[t1]{%
489          \sf@settitlefontE\sf@strut 5b.\ GRANT NUMBER}}
490      \put(324,521){\makebox(215, 30)[t1]{%
491          \sf@settitlefontE\sf@strut 5c.\ PROGRAM ELEMENT NUMBER}}
492      \put(324,491){\makebox(215, 30)[t1]{%
493          \sf@settitlefontE\sf@strut 5d.\ PROJECT NUMBER}}
494      \put(324,461){\makebox(215, 30)[t1]{%
495          \sf@settitlefontE\sf@strut 5e.\ TASK NUMBER}}
496      \put(324,431){\makebox(215, 30)[t1]{%
497          \sf@settitlefontE\sf@strut 5f.\ WORK UNIT NUMBER}}
498      \put( 0,431){\makebox(324, 90)[t1]{%
499          \sf@settitlefontE\sf@strut 6.\ AUTHOR(S)}}
500      \put( 0,372){\makebox(359, 59)[t1]{%
501          \sf@settitlefontE\sf@strut
7.\ PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)}}}
```

```

503 \put(359,372){\makebox(180, 59)[t1]{%
504   \sf@setttitlefontE\shortstack[1]{%
505     \sf@strut 8.\ PERFORMING ORGANIZATION REPORT\\[-2pt]
506     \sf@strut\phantom{8.\ }NUMBER}}}
507 \put( 0,300){\makebox(359, 72)[t1]{%
508   \sf@setttitlefontE\sf@strut
509   9.\ SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)}}
510 \put(359,336){\makebox(180, 36)[t1]{%
511   \sf@setttitlefontE\sf@strut 10.\ SPONSOR/MONITOR'S ACRONYM(S)}}
512 \put(359,300){\makebox(180, 36)[t1]{%
513   \sf@setttitlefontE\shortstack[1]{%
514     \sf@strut 11.\ SPONSOR/MONITOR'S REPORT\\[-3pt]
515     \sf@strut\phantom{11.\ }NUMBER(S)}}}
516 \ifsf@floatlongboxes\else
517   \put( 0,252){\makebox(539, 48)[t1]{%
518     \sf@setttitlefontE\sf@strut
519     12.\ DISTRIBUTION / AVAILABILITY STATEMENT}}
520   \put( 0,215){\makebox(539, 37)[t1]{%
521     \sf@setttitlefontE\sf@strut 13.\ SUPPLEMENTARY NOTES}}
522   \put( 0,95){\makebox(539,120)[t1]{%
523     \sf@setttitlefontE\sf@strut 14.\ ABSTRACT}}
524   \put( 0, 48){\makebox(539, 46)[t1]{%
525     \sf@setttitlefontE\sf@strut 15.\ SUBJECT TERMS}}
526 \fi
527 \put( 0, 36){\makebox(180, 12)[t1]{%
528   \sf@setttitlefontE\sf@strut 16.\ SECURITY CLASSIFICATION OF:}}
529 \put( 0, 0){\makebox( 60, 36)[t1]{%
530   \sf@setttitlefontE\sf@strut a.\ REPORT}}
531 \put( 60, 0){\makebox(60, 36)[t1]{%
532   \sf@setttitlefontE\sf@strut b.\ ABSTRACT}}
533 \put(120, 0){\makebox(60, 36)[t1]{%
534   \sf@setttitlefontE\sf@strut c.\ THIS PAGE}}
535 \put(180, 0){\makebox( 86, 48)[t1]{%
536   \sf@setttitlefontE\shortstack[1]{%
537     \sf@strut 17.\ LIMITATION OF\\[-2pt]
538     \sf@strut\phantom{17.\ }ABSTRACT}}}
539 \put(266, 0){\makebox( 68, 48)[t1]{%
540   \sf@setttitlefontE\shortstack[1]{%
541     \sf@strut 18.\ NUMBER\\[-2pt]
542     \sf@strut\phantom{18.\ }OF\\[-2pt]
543     \sf@strut\phantom{18.\ }PAGES}}}
544 \put(324, 24){\makebox(215, 24)[t1]{%
545   \sf@setttitlefontE\sf@strut 19a.\ NAME OF RESPONSIBLE PERSON}}
546 \put(324, 0){\makebox(215, 24)[t1]{%
547   \sf@setttitlefontE\sf@strut 19b.\ TELEPHONE NUMBER
548   \sf@setttitlefontF (include area code)}}
549 \put(405,-25){\makebox(123, 17)[b1]{%
550   \shortstack[1]{%
551     {\{\sf@setrevfontbold Standard Form 298\} \sf@setrevfont (Rev.\ 8/98)}\\[-2pt]%
552     {\sf@setrevfont Prescribed by ANSI Std.\ Z39.18}}}}

```

Now, we add the user's entries to the form. For undefined entries, we just add

null text, the required fields are checked above and a warning issued if any of them are empty.

```

553      % Fill in form
554      \put( 4,614){\makebox(0,0)[b1]{\sf@ReportDate}}
555      \put(148,614){\makebox(0,0)[b1]{\sf@ReportType}}
556      \put(363,614){\makebox(0,0)[b1]{\sf@DatesCovered}}
557      \put( 4,523){\sf@parbox( 80,324){\sf@Title}}
558      \put(328,585){\makebox(0,0)[b1]{\sf@ContractNumber}}
559      \put(328,555){\makebox(0,0)[b1]{\sf@GrantNumber}}
560      \put(328,525){\makebox(0,0)[b1]{\sf@ProgramElementNumber}}
561      \put(328,495){\makebox(0,0)[b1]{\sf@ProjectNumber}}
562      \put(328,465){\makebox(0,0)[b1]{\sf@TaskNumber}}
563      \put(328,435){\makebox(0,0)[b1]{\sf@WorkUnitNumber}}
564      \put( 4,434){\sf@parbox( 80,321){\sf@Author}}
565      \put( 4,397){\makebox(0,0)[l]{%
566          \parbox{355bp}{\raggedright\sf@PerformingOrg}}}
567      \put(363,372){\sf@parbox( 46,176){\sf@PReportNumber}}
568      \put( 4,331){\makebox(0,0)[l]{%
569          \parbox{355bp}{\raggedright \sf@SponsoringAgency}}}
570      \put(363,349){\makebox(0,0)[l]{%
571          \parbox{176bp}{\raggedright\sf@Acronyms}}}
572      \put(363,304){\makebox(0,0)[b1]{%
573          \vbox to 26bp{%
574              \vss
575              \noindent
576              \parbox{176bp}{\raggedright\sf@SMReportNumber}}}}
577      \ifsf@floatlongboxes
578          \put( 0,49){\parbox[b]{541bp}{%
579              \leftskip=4bp
580              \rightskip=4bp plus 2em
581              \vbox to 250bp{%
582                  \vbox to 0bp{%
583                      \hbox{\sf@settitlefontE\sf@strut
584                          12.\ DISTRIBUTION / AVAILABILITY STATEMENT}
585                      \vss}
586                      \vfil
587                      \sf@DistributionStatement
588                      \vfil
589                      \hrule width\linewidth height0.5bp
590                      \vbox to 0bp{%
591                          \hbox{\sf@settitlefontE\sf@strut 13.\ SUPPLEMENTARY NOTES}
592                          \vss}
593                      \vfil
594                      \sf@SupplementaryNotes
595                      \vfil
596                      \hrule width\linewidth height0.5bp
597                      \vbox to 0bp{%
598                          \hbox{\sf@settitlefontE\sf@strut 14.\ ABSTRACT}
599                          \vss}
600                      \vfil
601                      \sf@Abstract
602                  }
603              }
604          }
605      }
606  
```

```

602      \vfil
603      \hrule width\linewidth height0.5bp
604      \vbox to 0bp{%
605          \hbox{\sf@setttitlefontE\sf@strut 15.\ SUBJECT TERMS}
606          \vss}
607      \vfil
608      \sf@SubjectTerms
609      \vfill}}}
610 \else
611     \put( 4,255){\sf@parbox( 38,532){\sf@DistributionStatement}}
612     \put( 4,217){\sf@parbox( 25,532){\sf@SupplementaryNotes}}
613     \put( 4, 95){\sf@parbox(110,533){\sf@Abstract}}
614     \put( 4, 51){\sf@parbox( 36,533){\sf@SubjectTerms}}
615 \fi
616 \put( 30, 13){\makebox(0,0){\sf@ReportClassification}}
617 \put( 90, 13){\makebox(0,0){\sf@AbstractClassification}}
618 \put(150, 13){\makebox(0,0){\sf@PageClassification}}
619 \put(223, 13){\makebox(0,0){\sf@AbstractLimitation}}
620 \put(295, 13){\makebox(0,0){\large\sf@NumberPages}}
621 \put(328, 33){\makebox(0,0)[l]{\sf@ResponsiblePerson}}
622 \put(328,  9){\makebox(0,0)[l]{\sf@RPTelephone}}
623 \end{picture}}

```

\GeneralInstructions The **\GeneralInstructions** command creates the General Instructions Page, which uses a two column format. This is optionally included in some technical reports and should be used immediately after the **\ReportDescription** command so the General Instructions Page appears on the page immediately following the SF298 form.

```

624 \newcommand\GeneralInstructions[1]{%
625   \global\let\thanks\gobble
626   \MakeGenInsPage{#1}
627   \global\let\thanks\relax}

```

\MakeGenInsPage The **\MakeGenInsPage** command creates a new page containing the General Instructions for the SF298 form in a two-column format.

```

628 \newcommand\MakeGenInsPage[1]{%
629   \newpage
630   \if@twoside\ifodd\c@page\else
631     \null
632     \thispagestyle{empty}%
633     \newpage
634   \fi\fi
635   \vspace{1ex}
636
637   \thispagestyle{sf298FormIDStyle} % insert document code in footer
638 \begin{#1} % set font size
639 \noindent
640 \fbox{\begin{minipage}{\textwidth}
641 \vspace{3ex}
642 \begin{center}

```

```

643 \textbf{INSTRUCTIONS FOR COMPLETING SF 298}
644 \end{center}
645
646 \vspace{1ex}
647
648 \setlength{\columnsep}{0.8cm}
649 \setlength{\columnseprule}{0.2pt}
650 \vspace{-4ex}
651
652 \begin{multicols}{2}
653 \noindent
654 \textbf{1.~REPORT DATE.} Full publication date including day, month,
655 and year, if available. Must cite at least the year and be Year 2000
656 compliant, \eg 30-06-1998; xx-06-1998; xx-xx-1998.\hfill
657 \\ \\
658 \textbf{2.~REPORT TYPE.} State the type of report, such as final,
659 technical, interim, memorandum, master's thesis, progress, quarterly,
660 research, special, group study, etc.\hfill
661 \\ \\
662 \textbf{3.~DATE COVERED.} Indicate the time during which the work was
663 performed and the report was written, \eg, Jun 1997 - Jun 1998;
664 1-10 Jun 1996; May - Nov 1998; Nov 1998.\hfill
665 \\ \\
666 \textbf{4.~TITLE.} Enter title and subtitle with volume number and part
667 number, if applicable. On classified documents, enter the title
668 classification in parentheses.\hfill
669 \\ \\
670 \textbf{5a.~CONTRACT NUMBER.} Enter all contract numbers as they
671 appear in the report, \eg F33315-86-C-5169.\hfill
672 \\ \\
673 \textbf{5b.~GRANT NUMBER.} Enter all grant numbers as they appear in the
674 report. \eg AFOSR-82-1234.\hfill
675 \\ \\
676 \textbf{5c.~PROGRAM ELEMENT NUMBER.} Enter all program element numbers
677 as they appear in the report, \eg 61101A.\hfill
678 \\ \\
679 \textbf{5e.~TASK NUMBER.} Enter all task numbers as they appear in the
680 report, \eg 05; RF0330201; T4112.\hfill
681 \\ \\
682 \textbf{5f.~WORK UNIT NUMBER.} Enter all work unit numbers as they
683 appear in the report, \eg 001; AFAPL30480105.\hfill
684 \\ \\
685 \textbf{6.~AUTHOR(S).} Enter name(s) of person(s) responsible
686 for writing the report, performing the research, or credited with the
687 content of the report. The form of entry is the last name, first name,
688 middle initial, and additional qualifiers separated by commas, \eg Smith,
689 Richard, J, Jr.\hfill
690 \\ \\
691 \textbf{7.~PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES).} Self-explanatory. \hfill
692 \vfill
693 \columnbreak
694

```

```
695 \noindent
696 \textbf{8.~PERFORMING ORGANIZATION REPORT NUMBER.} Enter all unique
697 alphanumeric report numbers assigned by the performing organization,
698 \eg BRL-1234; AFWL-TR-85-4017-Vol-21-PT-2.\hfill
699 \\ \\ \noindent
700 \textbf{9.~SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES).} Enter
701 the name and address of the organization(s) financially responsible for
702 and monitoring the work.\hfill
703 \\ \\ \noindent
704 \textbf{10.~SPONSOR/MONITOR'S ACRONYM(S).} Enter, if available, \eg BRL,
705 ARDEC, NADC.\hfill
706 \\ \\ \noindent
707 \textbf{11.~SPONSOR/MONITOR'S REPORT NUMBER(S).} Enter report number as
708 assigned by the sponsoring/ monitoring agency, if available, \eg BRL-TR-829;
709 -215.\hfill
710 \\ \\ \noindent
711 \textbf{12.~DISTRIBUTION/AVAILABILITY STATEMENT.} Use agency-mandated
712 availability statements to indicate the public availability or distribution
713 limitations of the report. If additional limitations/ restrictions or
714 special markings are indicated, follow agency authorization procedures,
715 \eg RD/FRD, PROPIN, ITAR, etc. Include copyright information.\hfill
716 \\ \\ \noindent
717 \textbf{13.~SUPPLEMENTARY NOTES.} Enter information not included elsewhere
718 such as: prepared in cooperation with; translation of; report supersedes;
719 old edition number, etc.\hfill
720 \\ \\ \noindent
721 \textbf{14.~ABSTRACT.} A brief (approximately 200 words) factual summary
722 of the most significant information.\hfill
723 \\ \\ \noindent
724 \textbf{15.~SUBJECT TERMS.} Key words or phrases identifying major concepts
725 in the report.\hfill
726 \\ \\ \noindent
727 \textbf{16.~SECURITY CLASSIFICATION.} Enter security classification in
728 accordance with security classification regulations, \eg U, C, S, etc. If
729 this form contains classified information, stamp classification level on
730 the top and bottom of this page.\hfill
731 \\ \\ \noindent
732 \textbf{17.~LIMITATION OF ABSTRACT.} This block must be completed to assign
733 a distribution limitation to the abstract. Enter UU (Unclassified Unlimited)
734 or SAR (Same as Report). An entry in this block is necessary if the abstract
735 is to be limited. \hfill
736
737 \end{multicols}
738 \end{minipage}
739 }
740 \end{#1}
741
742 \normalsize % return font to normal size
743 }
```

9 Acknowledgments

Dr. Cochran would like to thank Professor Bruce M. Boghosian at the Center for Computational Science, Boston University (bruceb@bu.edu) for discovering problems with the use of a PostScript background for the sf298 form which convinced him to original write the entire package in L^AT_EX (versions 1.1 & 1.2). Also, to Dr. Nino Pereira (pereira@speakeasy.net) for the suggestion to make some of the fields more flexible.

Dr. Rochford would like to thank Dr. Cochran for creating the orginal version of the package, to which he added the option of providing the page of General Instructions (version 1.3).

References

- [1] Wihelm Müller, *The totpages package*, 1999/07/13.
- [2] Michel Goossens, Frank Mittelbach, and Alexander Samarin, *A Guide to L^AT_EX 2_<*, 1993, 2nd edition (revised 1995).