LOGO

institution

Main-Logo

Project Report

A LaTeX class

First Author *et al.*

Sponsor A   Sponsor B   Sponsor C   Sponsor D   Sponsor E

Contents

1

chapter A: Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

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1.1   Introduction

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1.2   Background and Thread

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1.2.1   Background

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1.2.2   Thread

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1.3   Footnotes, Verbatim, and Citations

Footnotes should be places after punctuation characters, without any spaces between said characters and footnotes, like so.[1] And some embedded literal code may look as follows.

```
int main(int argc, char *argv[])
{
    return 0;
}
```

Now we're going to cite somebody. Watch for the cite tag. Here it comes. Arpachi-Dusseau and Arpachi-Dusseau co-authored an excellent OS book, which is also really funny [1], and Waldspurger got into the SIGOPS hall-of-fame due to his seminal paper about resource management in the ESX hypervisor [2].

The tilde character (~) in the tex source means a non-breaking space. This way, your reference will always be attached to the word that preceded it, instead of going to the next line.

And the 'cite' package sorts your citations by their numerical order of the corresponding references at the end of the paper, ridding you from the need to notice that, e.g, "Waldspurger" appears after "Arpachi-Dusseau" when sorting references alphabetically [1, 2].

It'd be nice and thoughtful of you to include a suitable link in each and every bibtex entry that you use in your submission, to allow reviewers (and other readers) to easily get to the cited work, as is done in all entries found in the References section of this document.

Now we're going take a look at Section 1.4, but not before observing that refs to sections and citations and such are colored and clickable in the PDF because of the packages we've included.

1.4   Floating Figures and Lists

Here's a typical reference to a floating figure: Figure 1.1. Floats should usually be placed where latex wants then. Figure 1.1 is centered, and has a caption that instructs you to make sure that the size of the text within the figures that you use is as big as (or bigger than) the size of the text in the caption of the figures. Please do. Really.

In our case, we've explicitly drawn the figure inlined in latex, to allow this tex file to cleanly compile. But usually, your figures will reside in some file.pdf, and you'd include them in your document with, say, \includegraphics.

Lists are sometimes quite handy. If you want to itemize things, feel free:

fread a function that reads from a `stream` into the array `ptr` at most `nobj` objects of size `size`, returning returns the number of objects read.

Fred a person's name, e.g., there once was a dude named Fred who separated usenix.sty from this file to allow for easy inclusion.

The noindent at the start of this paragraph in its tex version makes it clear that it's a continuation of the preceding paragraph, as opposed to a new paragraph in its own right.
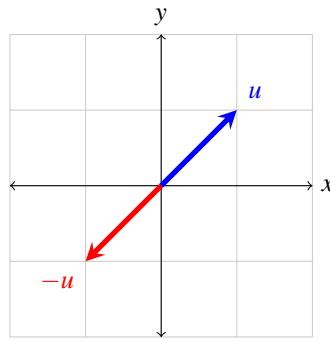
Figure 1.1: Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text. Text size inside figure should be as big as caption's text.

1.4.1 LaTeX-ing Your TeX File

People often use `pdflatex` these days for creating pdf-s from tex files via the shell. And `bibtex`, of course. Works for us.

Acknowledgments

The USENIX latex style is old and very tired, which is why there's no \acks command for you to use when acknowledging. Sorry.

Availability

USENIX program committees give extra points to submissions that are backed by artifacts that are publicly available. If you made your code or data available, it's worth mentioning this fact in a dedicated section.

2

chapter B: long chapter title name for text, toc and header

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2.1   System Overview

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3

Latex Commands Examples

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In any right triangle, the area of the square whose side is the hypotenuse is equal to the sum of the areas of the squares whose sides are the two legs.

In any right triangle, the area of the square whose side is the hypotenuse is equal to the sum of the areas of the squares whose sides are the two legs.

Table 3.1: caption infomation.

System	Nodes	IPC	ROS-IF	ROS-N	SITL	Lic.
PX4	yes	yes	yes	yes	ROS	BSD
OpenPilot	yes	yes	no	no	no	GPL
APM	no	no	yes	no	yes	GPL
PPZ	no	no	yes	no	yes	GPL
MultiWii	no	no	yes	no	no	GPL

Figure 3.1: caption infomation.

Figure 3.2: caption infomation.

Figure 3.3: caption infomation.

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.1}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non-zero function of the independent variables alone.

Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.2}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non-zero function of the independent variables alone.

Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.3}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non-zero function of the independent variables alone.

Definition 1

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.4}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non-zero function of the independent variables alone.

Definition 2: Inhomogeneous linear

An inhomogeneous linear differential equation has the form

$$L[v] = f, \tag{3.5}$$

where L is a linear differential operator, v is the dependent variable, and f is a given non-zero function of the independent variables alone.

A
chapter C

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A.1   app A

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A.2   Codes

```python
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)

```

```
27                VT = np.zeros((n*m,1), int)
28
29        return M
```

A.3   Color Palettes

A.3.1   Single Color

■ 3b0084   ■ 7474e0   ■ 191035

A.3.2   Multi-Color

1. ■ 005e9a	■ ff8400	■ fed9d9		
2. ■ 334854	■ e04463	■ efecea	■ f99055	■ e56cd6
3. ■ ed1010	■ ff5151	■ ffa0a0	■ be0d71	■ 0a8d8e
4. ■ d01114	■ f9b700	■ f0e1b8		
5. ■ 427dcd	■ c0b9af	■ fcdac6		
6. ■ 005e9a	■ ff8400	■ fed9d9		
7. ■ e8643c	■ d4c045	■ 98ccdd		
8. ■ 427dcd	■ c0b9af	■ fcdac6		
9. ■ ab7e49	■ 0c3f5a	■ f0cfa8	■ ab5f49	■ 347954
10. ■ f5502f	■ 0382fe	■ fbcb00		
11. ■ 1c37ee	■ ff4400	■ d8d0cd		
12. ■ 567990	■ 4277bb	■ bec4cf		
13. ■ cf211e	■ 464646	■ dddddd	■ f99055	■ e56cd6
14. ■ f9b70e	■ 244d67	■ f1d796	■ f98c0e	■ 666ab7
15. ■ ab7e49	■ 0c3f5a	■ f0cfa8	■ ab5f49	■ 347954
16. ■ ff3366	■ 0c3f5a	■ 45e1d3	■ 20a4f3	■ 979797
17. ■ 334854	■ e04463	■ efecea	■ 328080	■ 9fc84e
18. ■ d01114	■ f9b700	■ f0e1b8		
19. ■ 737495	■ f17d81	■ e7efde	■ d6bd9d	■ 677b89
20. ■ 334854	■ e04463	■ efecea	■ 20a4f3	■ 979797
21. ■ cf211e	■ 464646	■ dddddd		
22. ■ f9b70e	■ 244d67	■ f1d796	■ f98c0e	■ 666ab7
23. ■ 5749d9	■ ae6bdf	■ 2eecf8	■ fff33b	■ e968bc
24. ■ 86bcd8	■ c1bd97	■ a8c1ce	■ 7d637e	■ 99ad88
25. ■ 334854	■ e04463	■ efecea		
26. ■ aced15	■ a1918e	■ b4adea	■ bebbbb	■ ef798a
27. ■ 616161	■ 1dc2e5	■ aeebdb	■ ffab1a	■ ff571a

28. 4e828b	71aaa7	b6d8d5		
29. 5749d9	ae6bdf	2eecf8		
30. cf211e	464646	dddddd	328080	9fc84e
31. ff3366	0c3f5a	45e1d3	20a4f3	979797
32. 00adb5	0c3f5a	f8b500	ff0700	979797
33. 567990	4277bb	bec4cf	94ae89	896978
34. f9b70e	244d67	f1d796	ff0700	979797
35. 567990	4277bb	bec4cf	94ae89	896978
36. 00adb5	0c3f5a	f8b500	ff0700	979797
37. 00adb5	0c3f5a	f8b500	ff0700	979797
38. ebb200	a5a5a5	67c394	826c7f	eba1a1

1. 090002	2c0403	841b13	b5271c	e33426
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2. 62d5c4	eeb0bc			
3. 040653	ea3624			
4. f96167	fce77d			
5. f9d342	292826			
6. df678c	3d155f			
7. ccf381	4831d4			
8. 4a274f	f0a07c			
9. 2b3252	ef5455	fad744		
10. fff748	3c1a5b			
11. 2f3c7e	fbeaeb			
12. ec4d37	1d1b1b			
13. 8bd8bd	243665			
14. 141a46	ec8b5e			
15. ffffff	8aaae5			
16. 295f2d	ffe67c			
17. f4a950	161b21			
18. eb2188	080a52			
19. 4a171e	e2a144			
20. d2302c	f7f7f9			
21. 358597	f4a896			
22. e7d045	a04ef6			
23. 262223	ddc6b6			

24. f4efea	7d141d	ff1e27		
25. aa96da	c5fad5	ffffd2		
26. f7f7f7	006838	96cf24		
27. 234e70	fbf8be			
28. ffe8f5	8000ff	de00ff		
29. 191919	b88746	fdf5a6		
30. cc313d	f7c5cc			
31. e2d3f4	013dc4			
32. 533549	f6b042	f9ed4e		
33. 99f443	ec449b			
34. 050505	616161	e6e7e8		
35. ee4e34	fcedda			
36. 072c50	b88746	fdf5a6		
37. 96351e	dbb98f			
38. e2d1f9	317773			
1. 344150	4fa9d2	f0dd5d	81bf97	df6756
2. 4a154b	64c3eb	5bb381	e3b34c	ce375c
3. 250c77	ed642b	ffffff		
4. ffe01b	000000			
5. d8318a	f26c7d	e37439		
6. 4daaa7	3f8f8b	333333		
7. 3d8c95	225675	e6873c		
8. 8fd974	7ac968	5bb462	4ca456	394141
9. d9302c	ec692d	eaa23f		
10. fcb711 0db14b	f37021	cc004c	6460aa	0089d0
11. ff6e0c	f20c90			
12. 83d1c4	78517c	f17950		
13. 0046bf	feef22	ffffff		
14. f26764	ffffff			
15. 687818	ffd58e	3c1605	ffffff	
16. 54afbc	ffb449	fe5c36	434343	
17. 00a9a4	f9b117	f6911b		
18. 072f54	fbc108			
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20. fcd206 f18121 7582c0 b2aa7e d5df37
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21. f82b60 fcb401 19c0ff

22. 70c19a 939393

23. 7894ff ff4f2d ff8b74 ff89ff e6ebff

24. f224f2 ffffff

25. ff6d56 fa9233 ffbe0a 8ac539 57b7dd
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26. cfb08d ffffff

27. ff3d57 ffca00 00d748 434343

28. 2d2d2b ec9347

29. 1c4481 60688d 5b8ba1 b4d5de c7233b
    e47a2e f28d1b

30. 1dcdfe 21d0b2 34f5c5 2f455c

31. ee9142 265b94

32. e27043 ffffff

33. 80cfd5 007d98 6dc3cc ffffff

34. 91c11e 659a41 ffffff

35. f5b4a7 000000

36. c9d85b e1251a ffcd2e 28a9e0

37. 00bcb0 5630ff

38. 191035 ffffff

39. 93c244 3982d8 7da739

40. d94d5c ebc354

41. 4ca9ee 238878 5ecd81 b2b7bb

42. 263571 feda14

43. 000000 1a1a1a f2cf19 ffffff

44. da868a 417584

45. 39827e ec7345

46. f84d08 4e1d07 fdee50

47. 293345 f95665 f95f7f fb7e51 fda022

48. 52b1b6 d5d156 f4cd5c b8428d d85f9a
    e17a8c de713e d23d46 c83b52 404040

49. 21455b f9da9f 5ec3f7 adaed4 aee1fb
    f4c7b5 c2e2c6 b5f3d4 94a2f8 bcdf5f

50. 4297c8 0e3692

1.	f4b41a	143d59		
2.	210070	213970		
3.	ffe042	e71989		
4.	ffa781	5b0e2d		
5.	00e1d9	5e001f		
6.	060d4d	f49f1c		
7.	0e387a	9fafca		
8.	a9dce3	7689de		
9.	fcc729	337def		
10.	efc8b1	514644		
11.	5e057e	c299d0		
12.	551fbd	a2eacb		
13.	ffb8b1	993441		
14.	bdfff6	e23c52		
15.	390879	b8df10		
16.	a3842c	575200		
17.	008970	99eedf		
18.	efc8b1	8a6626		
19.	0f4d19	6fc27c		
20.	e54b22	abd1ff		
21.	0f149a	fd9b4d		
22.	bfbf14	0029a5		
23.	f6b60d	372800		
24.	4955fd	a5e300		
25.	f2bc94	30110d	722620	
26.	6dd47e	ffd55a	f4af1b	
27.	104c91	efc9af	1f8ac0	
28.	283350	f93800	ffb500	
29.	f9858b	ed335f	761137	
30.	f2bc94	00154f	f4af1b	
31.	4b3d8f	37a987	b7b1d2	
32.	455073	c0904d	6077c0	
33.	4d3227	ebc999	cd7700	
34.	3d4c41	999999	e6e6e6	
35.	cedef0	9d9ad9	6b9bd1	

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36. 7b3433	c86797	e9bbba
37. ebebde	777764	4f4747
38. 64395f	c075b7	6caca0
39. 388d5d	d6a34a	5a431b
40. 241f1c	937047	e7dac7
41. 404040	a0b6f7	f2f261
42. 1d5c96	7db0de	12395d

1. e8ebc2	d4a656	e16e79	364eb9	228fcf
2. fbf4b5	fff9d4	c1a87d	d3a13b	b58d3d
3. e3dbd8	a6a29e	583629	7e4d4e	ef5c4e
4. bd3b1b	d8a800	b9d870	b6c61a	006344
5. fa1e44	fec925	c9e3db	5ab190	00b4eb
6. ec380b	f05f3b	a5c5c3	429f9e	007872
7. 231f20	ffffff	ffc602	f2c9a0	f2b54a
8. ee801e	e75b10	000000	d6d1ce	e3e0dd
9. cb534f	c48f22	53a586	4faed9	6d78bf
10. ffce1e	0086ff	f2f3f2	feb607	1592d8
11. 2b3990	c49a6c	f2f3f2	374396	5970af
12. b0d5d0	6fc0ab	ffdee5	e2b1cd	fee8db
13. 84cfcb	ffed90	efe1d4	f6e6e7	f2f7fb
14. dc4e76	cc4b93	a946be	5c4ae4	35375a
15. 5cd89f	ff5c3e	ffd36e	005d68	545454
16. 88d840	67b826	247209	dad8db	2a351f
17. e86835	f64e00	cc4201	e0e2ec	b4b3a9
18. ff5851	f3c130	414a6b	1c1b20	b49a85
19. f76c6c	f99797	23305e	a8d0e6	39424e
20. 007ee5	ffffff	7b8994	47525d	3d464d
21. 3cba54	f4c20d	db3236	4885ed	bdbdbd
22. 161626	3b3a4a	1ebad6	c0c0c8	f2f2f4
23. 080501	d48b00	dba401	efd319	dddcdd
24. 3ae8b0	19afd0	6967ce	ffb900	fd636b
25. 808083	79c141	addfe9	891d02	46aa42
26. 000000	ed5338	321119	86754e	949091
27. 080808	f7d624	fbc702	d5cabb	308eab
28. ffffff	e5e5e5	b56a16	7a392c	161c14

29.   ffffff   1db954   b56a16   f9d03b   f37778

30.   ff5a5f   00a699   fc642d   484848   767676

31.   e0798c   65365a   da8886   cfc4c4   dfd7ca

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