

# 南 华 大 学

## 计 算 机 学 院

# 计 算 机 网 络 实 验 报 告

( 2024 2025 学 年 第 一 学 期 )

课程名称	计算机网络实验报告
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## 1. 一级标题

整理了在实验报告可能用到的任何元素，包括图表(及其编号)，树状图，代码块，数学公式，高亮，样式内容块等。

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat.

测试中文：

通过这次实验，我深刻体会到了同态加密技术的强大和实用性，特别是在保护数据隐私的同时执行复杂计算的能力。使用 *Microsoft SEAL* 库进行加密计算不仅加深了我对同态加密原理的理解，也提升了我的编程技能和解决实际问题的能力。

分点：

1. *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*
  2. *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*
- *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*
  - *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*
  - test<sup>1</sup>

terms:

**Fact** If a term list has a lot of text, and maybe other inline content.

**Tip** To make it wide, simply insert a blank line between the items.

测试文本

测试文本

测试文本

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[点击跳转链接](#)

这是一个被强调的内容

### 1.1. 二级标题

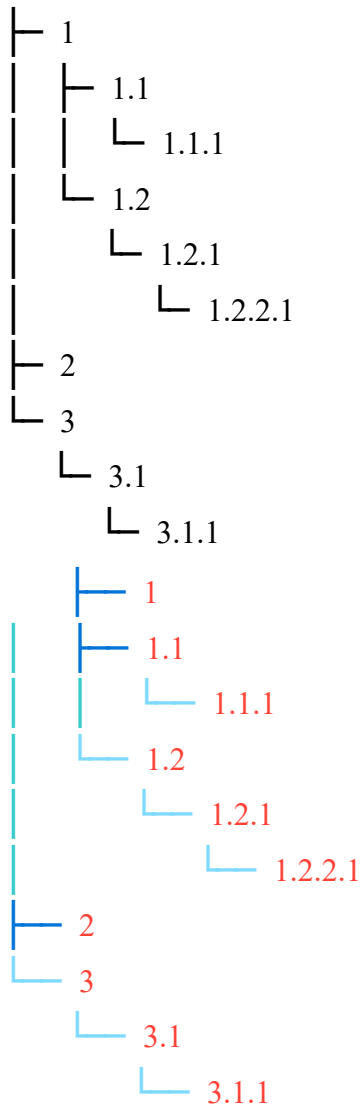
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---

<sup>1</sup>测试脚注

## 1.2. 测试 treet

树状图:



## 1.3. 测试 iconic-salmon-fa

☒ Bi0T1N      ☒ Bi0T1N      ☒ Bi0T1N

## 1.4. 测试 badgery



Menu > Sub-menu > Sub-sub menu > Action

## 1.5. 测试 gentle

### Info

This is the info clue ...

### 这是一个测试标题

Check out this cool package

### Question

This is the info clue ...

### Quote

This is the info clue ...

### Example

This is the info clue ...

### Abstract

This is the info clue ...

### Task

This is the info clue ...

### Error

This is the info clue ...

### Warning

This is the info clue ...

### Success

This is the info clue ...



### Conclusion

This is the info clue ...



### Memorize

This is the info clue ...

We should run more tests!

## 1.6. 测试 note-me



### Note

Highlights information that users should take into account, even when skimming.



### Tip

Optional information to help a user be more successful.



### Important

Crucial information necessary for users to succeed.



### Warning

Critical content demanding immediate user attention due to potential risks.



### Caution

Negative potential consequences of an action.



### TODO

Fix note-me package.

## 1.7. 测试 colorbox

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## 1.8. 测试 showybox

①

Red-ish showybox with separated sections!

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.

②

### Clairaut's theorem

Let  $f : A \rightarrow \mathbb{R}$  with  $A \subset \mathbb{R}^n$  an open set such that its cross derivatives of any order exist and are continuous in  $A$ . Then for any point  $(a_1, a_2, \dots, a_n) \in A$  it is true that

$$\frac{\partial^n f}{\partial x_i \dots \partial x_j}(a_1, a_2, \dots, a_n) = \frac{\partial^n f}{\partial x_j \dots \partial x_i}(a_1, a_2, \dots, a_n) \quad (1.1)$$

*This will be useful every*

*time you want to interchange partial derivatives in the future.*

③

### Lorem ipsum dolor.

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequaleamus animo, cum corpore dolemus, fieri.

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④

### Divergence theorem

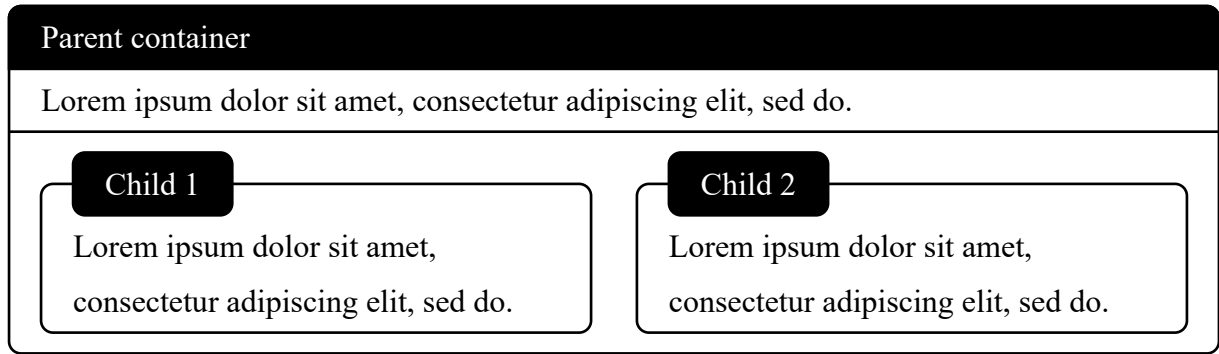
Suppose  $V$  is a subset of  $\mathbb{R}^n$  which is compact and has a piecewise smooth boundary  $S$  (also indicated with  $\partial V = S$ ). If  $\mathbf{F}$  is a continuously differentiable vector field defined on a neighborhood of  $V$ , then:

$$\iiint_V (\nabla \cdot \mathbf{F}) \, dV = \iint_S (\mathbf{F} \cdot \hat{\mathbf{n}}) \, dS \quad (1.2)$$

In the case of  $n = 3$ ,  $V$  represents a volume in three-dimensional space, and  $\partial V = S$  its surface

⑤





1.9. 测试 syntree

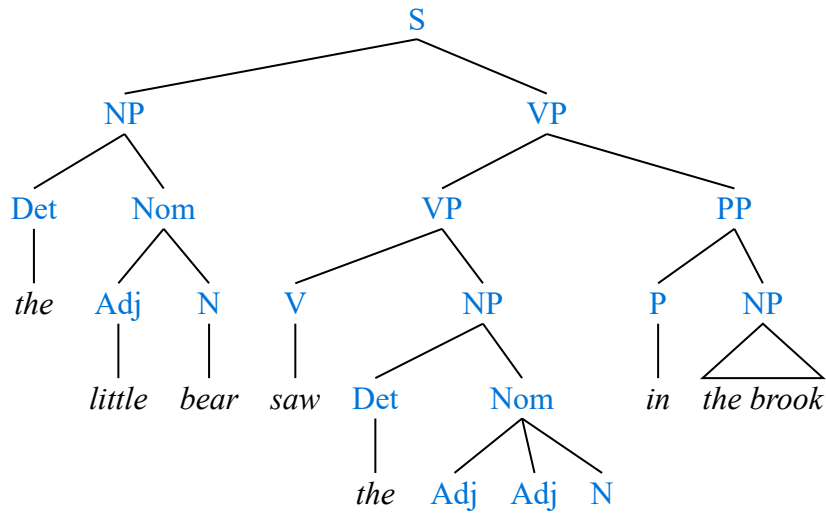


图 1.9.1: Example of a syntax tree.

1.10. 测试 easytable

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures
involving	quantum	mechanics.

表 1.10.2: 表格示例

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures

involving

quantum

mechanics.

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures
involving	quantum	mechanics.

图 1.10.3: 表格示例

### 1.11. 测试 tablex

Username	Data		Score
	Location	Height	
John	Second St.	180 cm	5
Wally	Third Av.	160 cm	10
Jason	Some St.	150 cm	15
Robert	123 Av.	190 cm	20
Other	Unknown St.	170 cm	25

表 1.11.4: 一个表格

### 1.12. 测试 codly

```
1 pub fn main() {
2     println!("Hello, world!");
3 }
```

rust

```
1 void MergeSort(int arr[], int left, int right) {
2     if(left >= right) return;
3     int mid = (left + right) >> 1;
4     MergeSort(arr, left, mid);
5     MergeSort(arr, mid + 1, right);
6     int i = left, j = mid + 1, k = 0, temp[right - left + 1];
7     while(i <= mid && j <= right) {
8         if(arr[i] <= arr[j]) temp[k++] = arr[i++];
9         else temp[k++] = arr[j++];
10    }
11    while(i <= mid) temp[k++] = arr[i++];
12    while(j <= right) temp[k++] = arr[j++];
13    for(int i = 0; i < k; i++) arr[left + i] = temp[i];
14 }
```

cpp

### 1.13. 测试 cheq

- ☐ Mercury
- ☒ Mars
- ☐ Jupiter
- ☒ Sun

### 1.14. 测试 pyrunner

```
("john.doe@example.com", "jane.doe@example.net") 6
```

### 1.15. 测试 pinit

A simple highlighted text.

It is simple.

### 1.16. 测试 neoplot

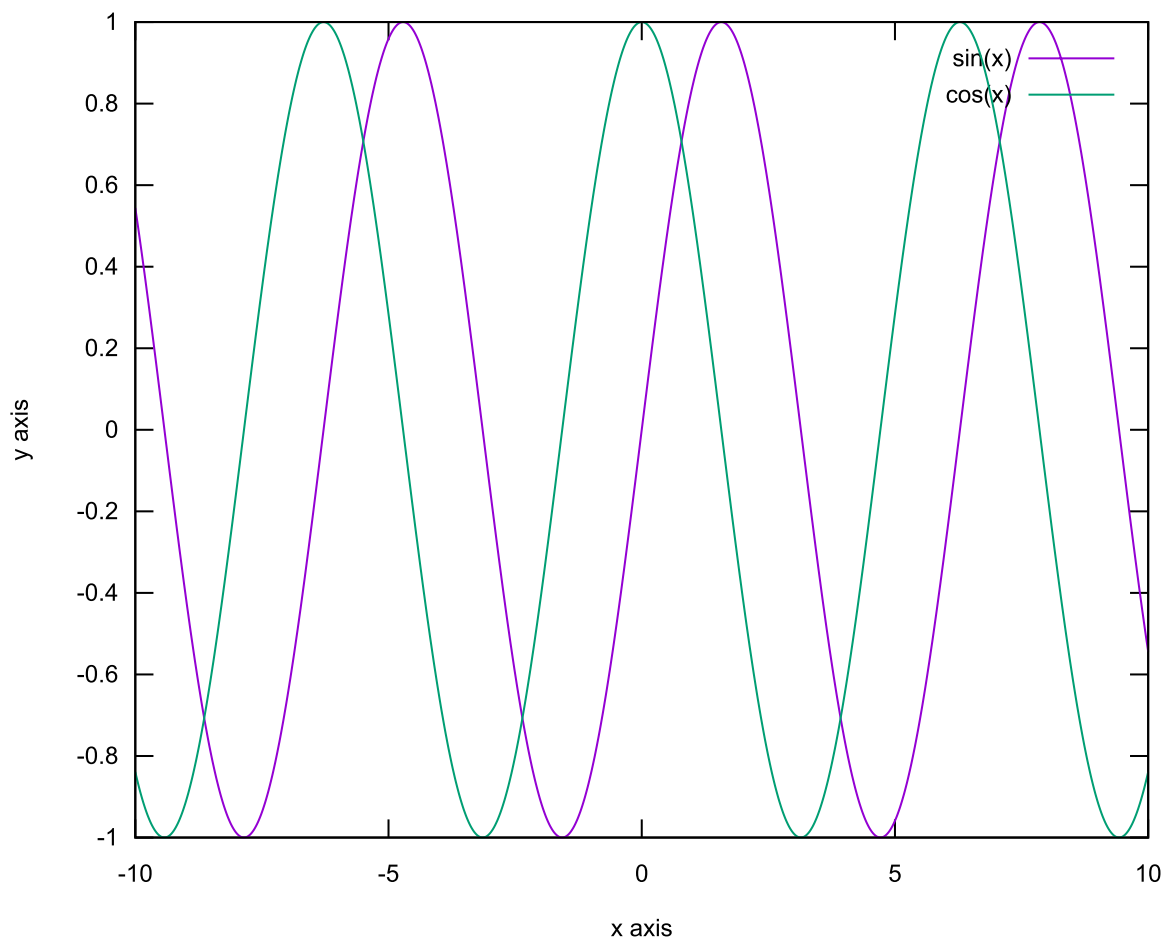
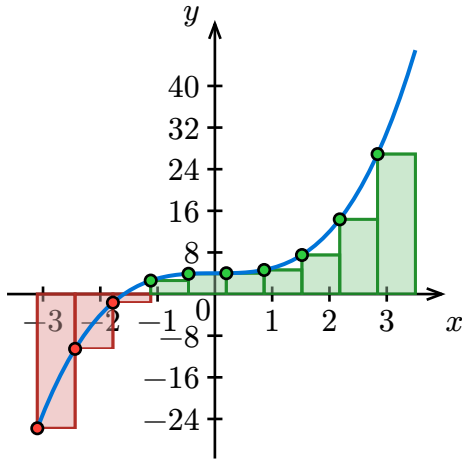


图 1.16.5: 测试图片

### 1.17. 测试 riesketcher



### 1.18. 测试 physica

$$A^T, \nabla \times \boldsymbol{E} = -\frac{\partial \boldsymbol{B}}{\partial t}, \quad \Lambda^\mu{}_\nu = \begin{pmatrix} 1 & \\ & \mathbb{R} \end{pmatrix}, \quad f(x,y) \, \mathrm{d}x \, \mathrm{d}y, \quad \mathrm{d}^3 \boldsymbol{x} \, \mathrm{d}y, \quad \Delta^2 x \wedge \Delta^2 y, \quad \frac{\mathrm{D}\varphi}{\mathrm{D}t} = \frac{\partial \varphi}{\partial t} + \boldsymbol{u} \nabla \varphi$$

$$H(f)=\begin{bmatrix}\frac{\partial^2 f}{\partial x^2}&\frac{\partial^2 f}{\partial x\partial y}\\\frac{\partial^2 f}{\partial y\partial x}&\frac{\partial^2 f}{\partial y^2}\end{bmatrix}, \quad v^a=\sum_{i=1}^n\alpha_i\hat{u}^i, \quad \left\{(x,y)\left|\frac{\partial^3 f}{\partial x^2\partial y}+\frac{\partial^3 f}{\partial x\partial y^2}<\varepsilon\right.\right\} \quad (1.3)$$

$$-\frac{1}{c^2}\frac{\partial^2}{\partial t^2}\psi+\nabla^2\psi=\frac{m^2c^2}{\hbar^2}\psi, \quad |n^{(1)}\rangle=\sum_{k\notin D}\frac{\langle k^{(0)}|V|n^{(0)}\rangle}{E_n^{(0)}-E_k^{(0)}}|k^{(0)}\rangle, \quad \int_V\mathrm{d}V\left(\frac{\partial\mathcal{L}}{\partial\varphi}-\partial_\mu\left(\frac{\partial\mathcal{L}}{\partial(\partial_\mu\varphi)}\right)\right)=0$$

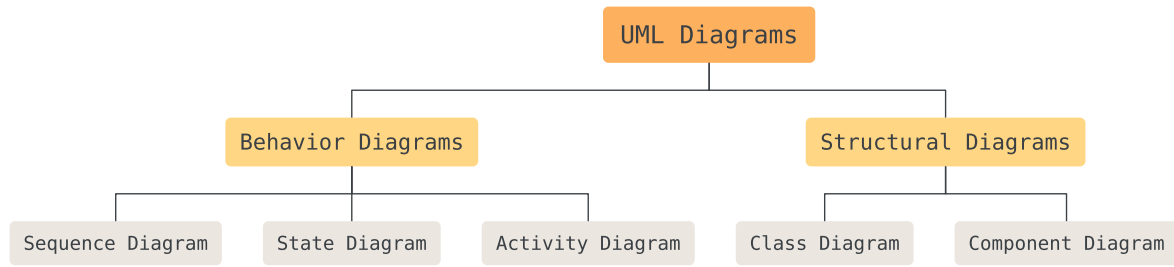
$$\mathrm{d}^2s=-\left(1-\frac{2GM}{r}\right)\mathrm{d}^2t+\left(1-\frac{2GM}{r}\right)^{-1}\mathrm{d}^2r+r^2\,\mathrm{d}^2\Omega$$

$$\begin{array}{l} \text{clk:} \quad \text{[square wave]} \\ \text{bus:} \quad \text{[diagonal lines]} \end{array} \quad (1.4)$$

### 1.19. 测试 mitex

$$f(x)=\int_{-\infty}^{\infty}\hat{f}(\xi)\,e^{2\pi i\xi x}\,d\xi \quad (1.5)$$

### 1.20. 测试 pintora



### 1.21. 测试 unify

$$(-1.328\,65 \pm 0.502\,73) \cdot 10^{-6} \quad (1.6)$$

$$(1.3_{-0.3}^{+1.2}) \cdot 10^3 \text{ erg cm}^{-2} \text{ s}^{-1} \quad (1.7)$$

$$1,123'8 \cdot 10^{-2} - 3,086'8 \cdot 10^5 \quad (1.8)$$

$$(1 \text{ to } 2) \cdot 10^3 \frac{\text{m}}{\text{s}^2} \quad (1.9)$$

### 1.22. 测试 algo

```

FIB (n):
1  if n < 0:
2  |   return null
3  if n = 0 or n = 1:
4  |   return n
5
6  let x ← 0
7  let y ← 1
8  for i ← 2 to n - 1: ▷ so dynamic!
9  |   let z ← x + y
10 |   x ← y
11 |   y ← z
12
13 return x + y
    
```

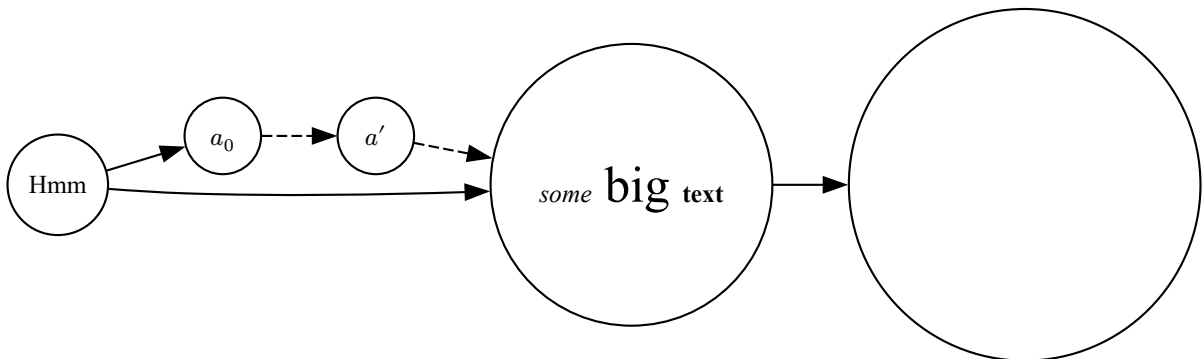
**FLOYD-WARSHALL**( $V, E, w$ ):

```

1  Let  $\text{dist}[u, v] \leftarrow \infty$  for  $u, v$  in  $V$ 
2  For  $(u, v)$  in  $E$ :
3  |    $\text{dist}[u, v] \leftarrow w(u, v)$                                 // edge weights
4  For  $v$  in  $V$ :
5  |    $\text{dist}[v, v] \leftarrow 0$                                     // base case
6
7  For  $k \leftarrow 1$  to  $|V|$ :
8  |   For  $i \leftarrow 1$  to  $|V|$ :
9  |   |   For  $j \leftarrow 1$  to  $|V|$ :
10 |   |   // if new path is shorter, reduce distance
11 |   |   If  $\text{dist}[i, j] > \text{dist}[i, k] + \text{dist}[k, j]$ :
12 |   |   |    $\text{dist}[i, j] \leftarrow \text{dist}[i, k] + \text{dist}[k, j]$ 
13 |   |
14 Return  $\text{dist}$ 

```

### 1.23. 测试 **diagraph**



### 1.24. 测试 **xarrow**

$$\begin{array}{c}
 \begin{array}{ccc}
 a & \xleftarrow{\mathbb{Q}, 1+1^4} & b \\
 c & \xrightarrow{\text{very long boi}} & d
 \end{array} \\
 \hline
 \begin{array}{ccc}
 c & & \\
 \text{NP} \sum^* & & \\
 a \rightarrow^* & b \times 4 & 
 \end{array}
 \end{array} \tag{1.11}$$

测试参考文献:

文献 1 的内容[1]

文献 2 的内容[2]

## 参考文献

- [1] R. Impagliazzo, R. Paturi, and F. Zane, “Which problems have strongly exponential complexity?,” *Journal of Computer and System Sciences*, vol. 63, no. 4, pp. 512–530, 2001.
- [2] S. Burckhardt *et al.*, “It's Alive! Continuous Feedback in UI Programming,” *SIGPLAN Not.*, vol. 48, no. 6, pp. 95–104, Jun. 2013, doi: [10.1145/2499370.2462170](https://doi.org/10.1145/2499370.2462170).