

MyNote

□□□□

AMBA

AXI

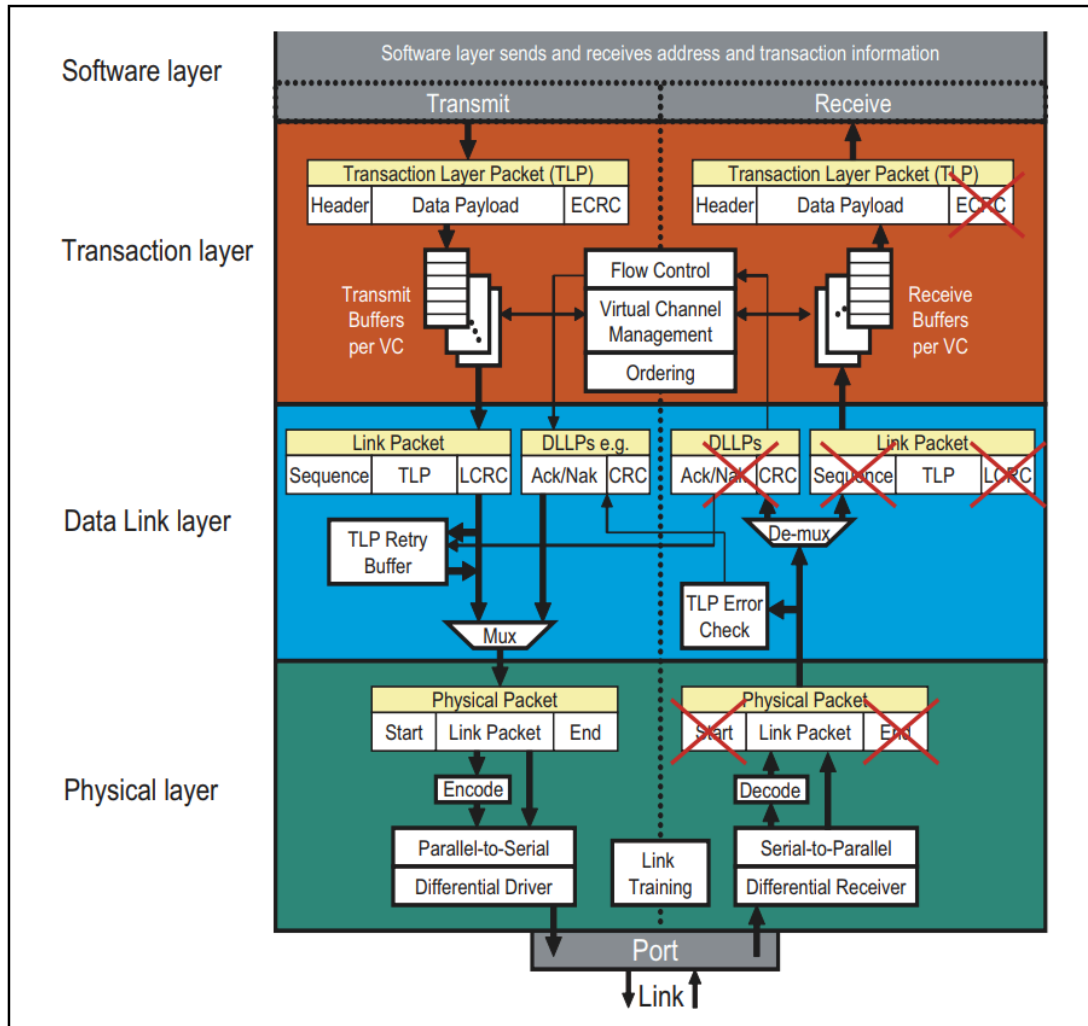
CHI

PCIe

PCIe



Figure 11-1: PCIe Port Layers



□□□□□

Transaction Layer

ARM N2 PCIe□□□□□

PCIe □□□□□□

PCIe □□□□

PCIe AER

PCIe Interrupt

PCIe Hot-Plug

PCIe Power Management

Silicon IP

LeetCode

[toc]

- [二分](#)
 - [35. 搜索插入位置](#)
 - [74. 搜索二维矩阵](#)
 - [34. 在排序数组中查找元素的第一个和最后一个位置](#)
 - [33. 搜索旋转排序数组](#)

二分查找

二分

[35. 搜索插入位置](#)

while 二分查找

- `mid` 中间位置
- 边界条件

```

class Solution {
public:
    int searchInsert(vector<int>& nums, int target) {
        int left = 0;
        int right = nums.size() - 1;
        while(left<=right) {
            // 计算left + right 防止int max
            // 防止溢出
            int mid = left + ((right - left) >> 1);
            if (nums[mid] > target) {
                // 向左
                right = mid - 1;
            } else if (nums[mid] < target) {
                // 向右
                left = mid + 1;
            } else if (nums[mid] == target) {
                return mid;
            } else {
                //
                return left + 1;
            }
        }
        // 返回
        return left;
    }
};

```

74. 搜索二维数组

给定一个二维数组，for 遍历

遍历二维数组 mid 遍历


```

class Solution {
public:
    vector<int> ans;
    vector<int> searchRange(vector<int>& nums, int target) {
        int left = 0;
        int right = nums.size() - 1;

        int first = -1;
        int last = -1;

        // 特殊情况
        if (nums.size() == 0) {
            ans.push_back(-1);
            ans.push_back(-1);
            return ans;
        }

        while (left <= right)
        {
            /* code */
            int mid = left + ((right - left) >> 1);
            if (nums[mid] == target){
                first = mid;
                right = mid - 1;
            } else if (nums[mid] > target) {
                //
                right = mid - 1;
            } else {
                left = mid + 1;
            }
        }

        left = 0;
        right = nums.size() - 1;

        while (left <= right)
        {
            /* code */
            int mid = left + ((right - left) >> 1);
            if (nums[mid] == target){
                last = mid;
                left = mid + 1;
            } else if (nums[mid] > target) {
                //
                right = mid - 1;
            }
        }
    }
};

```

```

        } else {
            left = mid + 1;
        }
    }

    ans.push_back(first);
    ans.push_back(last);
    return ans;
}

};

```

33. 00000000

00000000000000

000000000000000000000000

00000000000000

```

class Solution {
public:
    int search(vector<int>& nums, int target) {
        int left=0,right=nums.size()-1;
        while(left<=right){
            int mid=left+(right-left)/2;
            if(target==nums[mid]) return mid;
            // 有序数组
            if(nums[left]<=nums[mid]){
                // 有序数组
                if(target>=nums[left]&&target<nums[mid]){
                    right=mid-1;
                }else{
                    // 有序数组
                    left=mid+1;
                }
            }else{
                // 有序数组
                if(target>nums[mid]&&target<=nums[right]){
                    left=mid+1;
                }else{
                    right=mid-1;
                }
            }
        }
        return -1;
    }
};

```