协议统一为tcp二进制，包的内容分为包头+包体，数据结构为：



聊天消息数据格式为：

进入聊天室 1.2.3.4 0x0001\n

离开聊天室 1.2.3.4 0x0003\n

聊天消息 1.2.3.4|test\n

发送消息中要过滤掉|和\n

1. 进入聊天室协议

请求包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0001 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 |  |  |  |

应答包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0002 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | 返回码 | unsigned short int | 2字节 |

1. 离开聊天室协议

请求包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0003 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 |  |  |  |

应答包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0004 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | 返回码 | unsigned short int | 2字节 |

1. 发送消息协议

请求包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0005 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | 消息 | char\* | 字符串 |

应答包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0006 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | 返回码 | unsigned short int | 2字节 |

1. 获取消息协议

请求包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0007 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 |  |  |  |

应答包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0008 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | 消息 | char[] | 字符串 |

1. 获取用户IP列表

请求包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x0009 |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 |  |  |  |

应答包

|  |  |  |  |
| --- | --- | --- | --- |
|  | 字段 | 类型 | 备注 |
| 包头 | ip | unsigned int | 4字节ip |
| 协议号 | unsigned short int | 固定为0x000A |
| 包体长度 | unsigned short int | 范围0--65535 |
| 包体 | Ip列表 | N个四字节ip | 不能超过1000个 |

**以上数据均为网络字节序**

返回码定义：

1. 返回成功

1 仅支持post请求

2 创建socket失败

3 连接服务器失败

4 发送失败

11 消息不能为空