



Universidade Federal de Santa Catarina
Centro Tecnológico
Departamento de Informática e Estatística
Ciência da Computação
INE5424 - Sistemas Operacionais II



Projeto Final (Grupo A) - P1

Ana Regina Delazzari (22102191)
Fabricio Duarte Junior (22100615)
Tiago Faustino de Siqueira (22102193)
William Kraus (22100639)

Florianópolis
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1. API

1.1. Inicialização

```
ReliableCommunication comm(local_id, buffer_size);
```

1.2. send

```
char buffer[5] = {'H', 'e', 'l', 'l', 'o'};

bool success = comm.send(1, buffer); // Usa o buffer_size definido na
instanciação

if (!success) std::cout << "Oops!" << std::endl;
```

ou

```
char buffer[5] = {'H', 'e', 'l', 'l', 'o'};

bool success = comm.send(1, {buffer, 5});

if (!success) std::cout << "Oops!" << std::endl;
```

1.3. receive

```
char buffer[Message::MAX_SIZE];

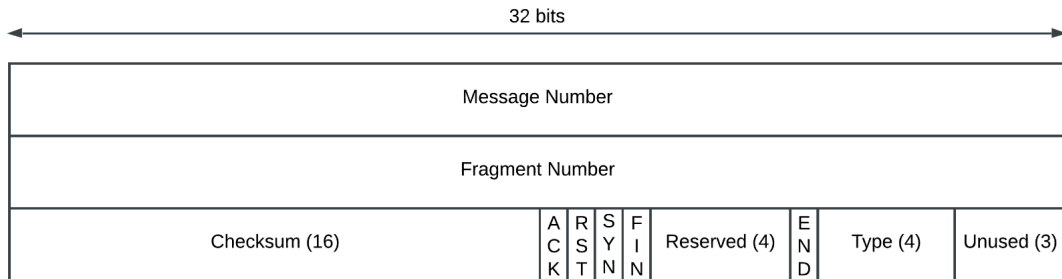
ReceiveResult result = comm.receive(buffer);

std::string value(buffer, result.length);

std::cout << value << std::endl;
```

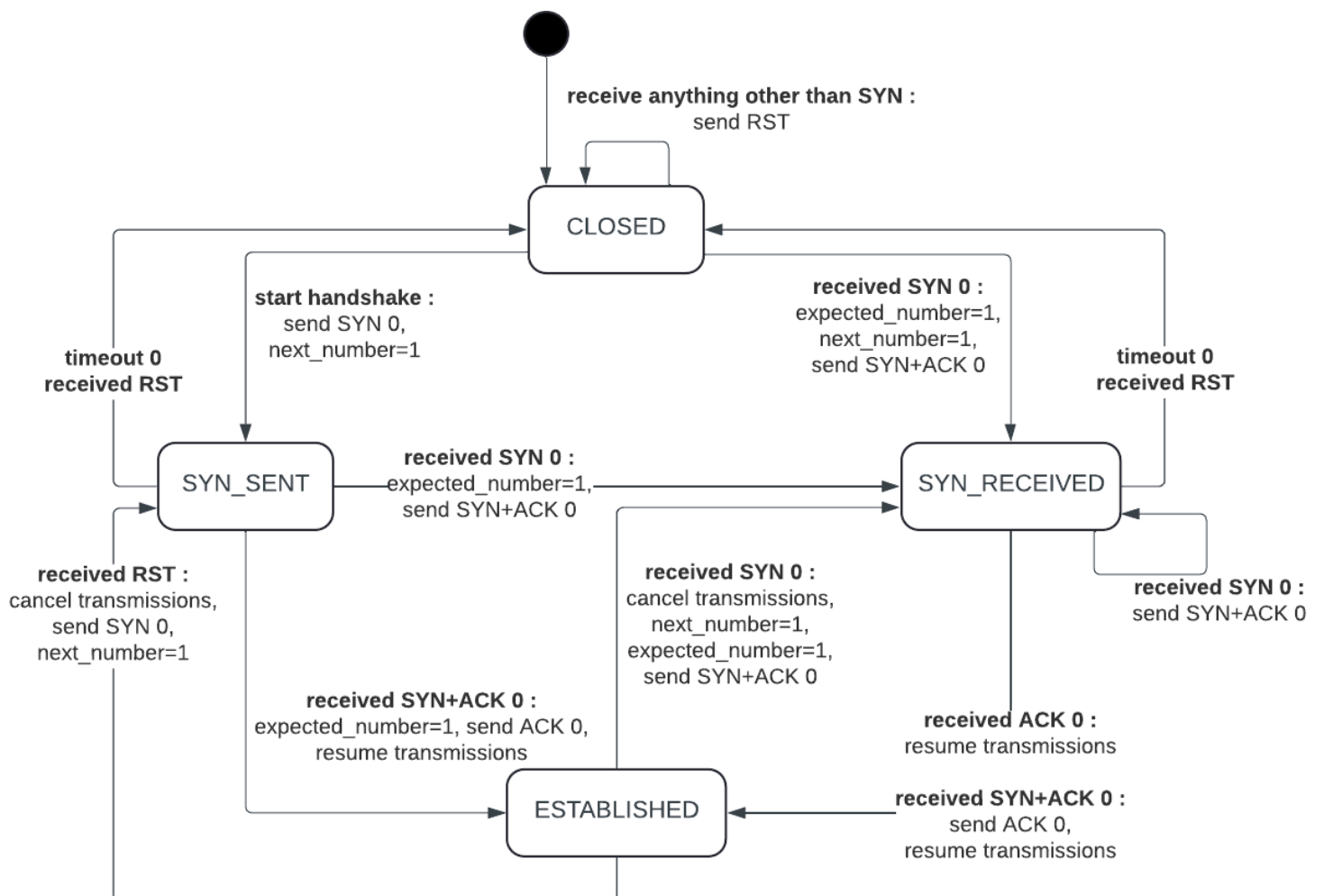
2. Cabeçalho do pacote

Packet Header

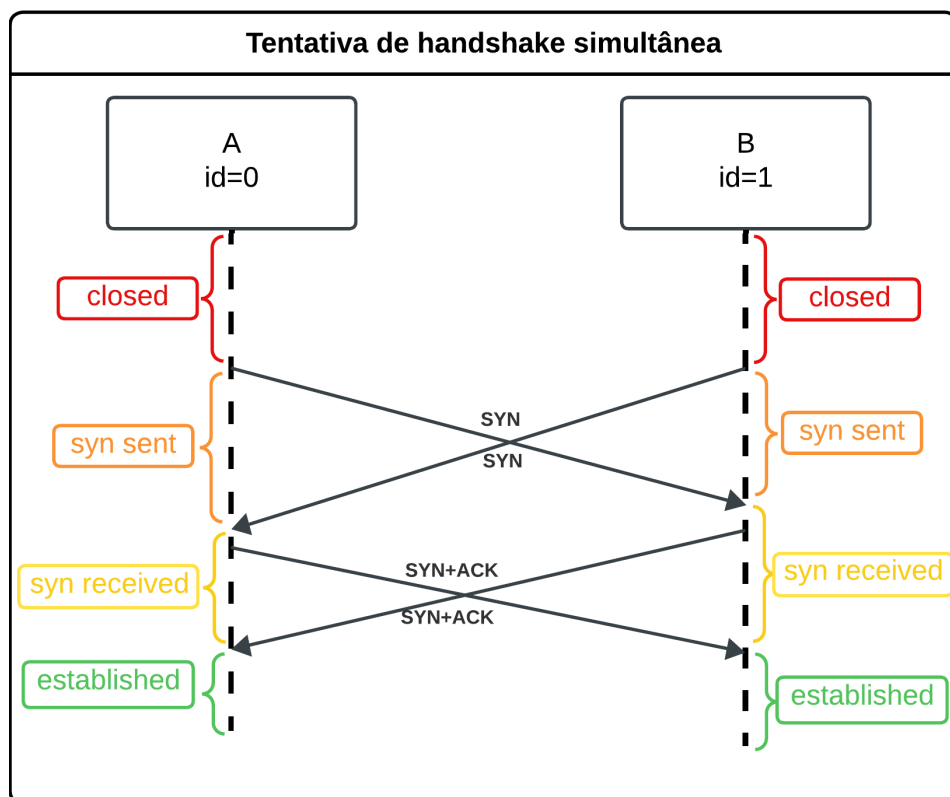
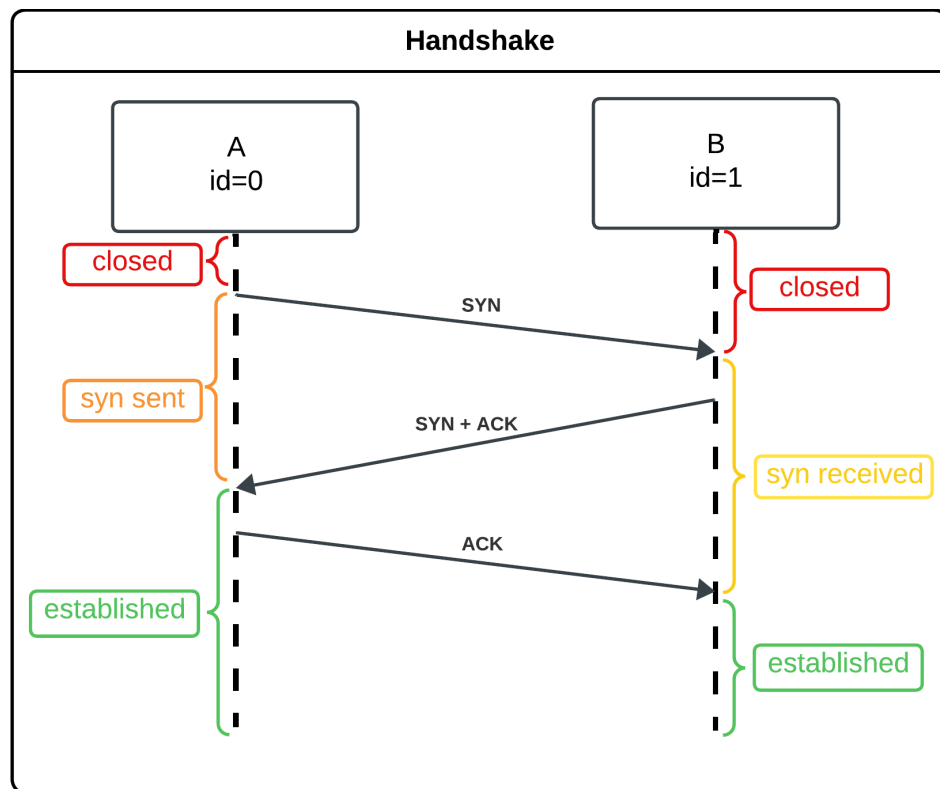


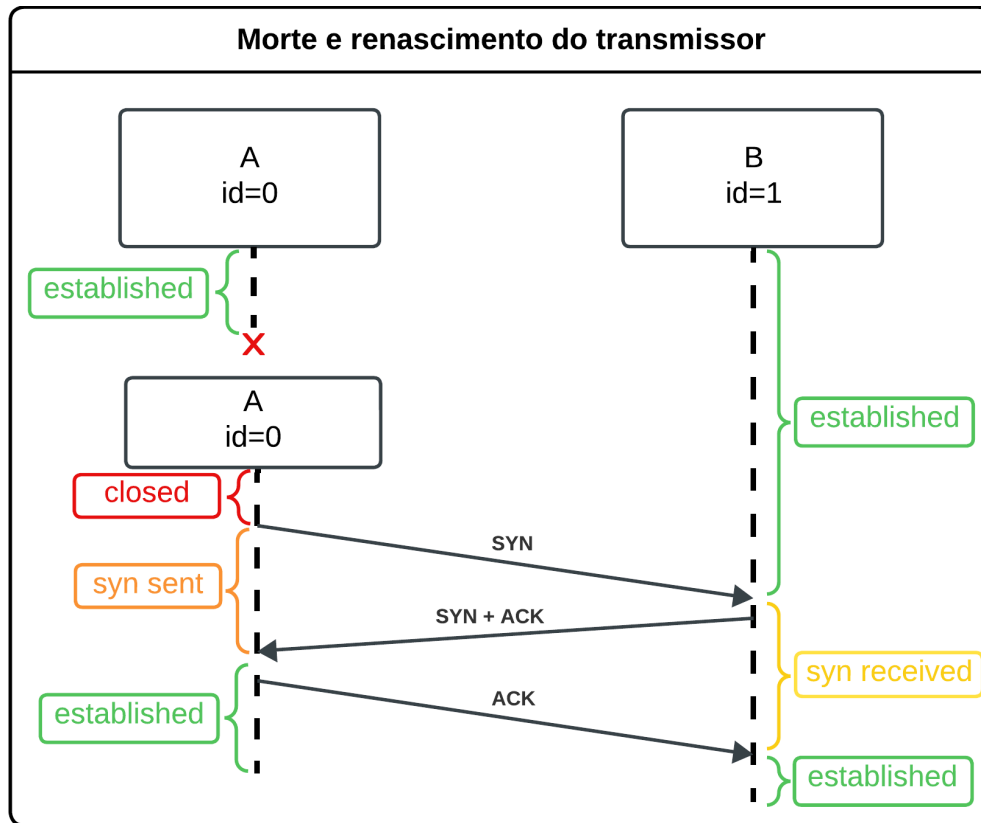
3. Handshake

3.1. Diagrama de máquina de estados

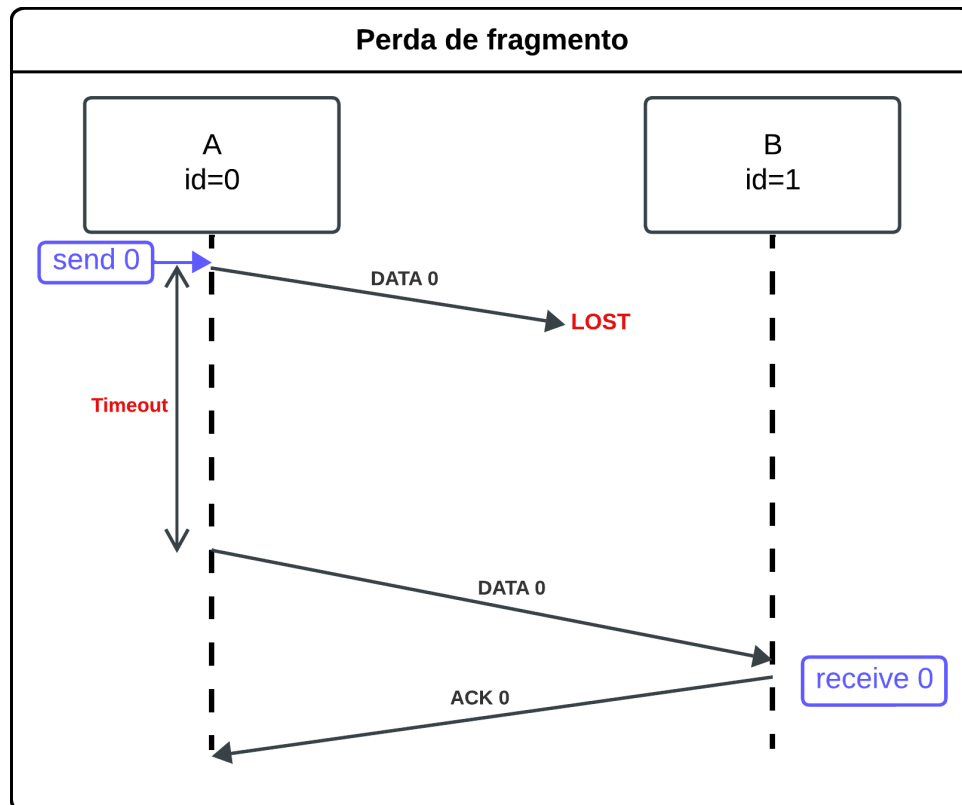


3.2. Diagrama de sequência

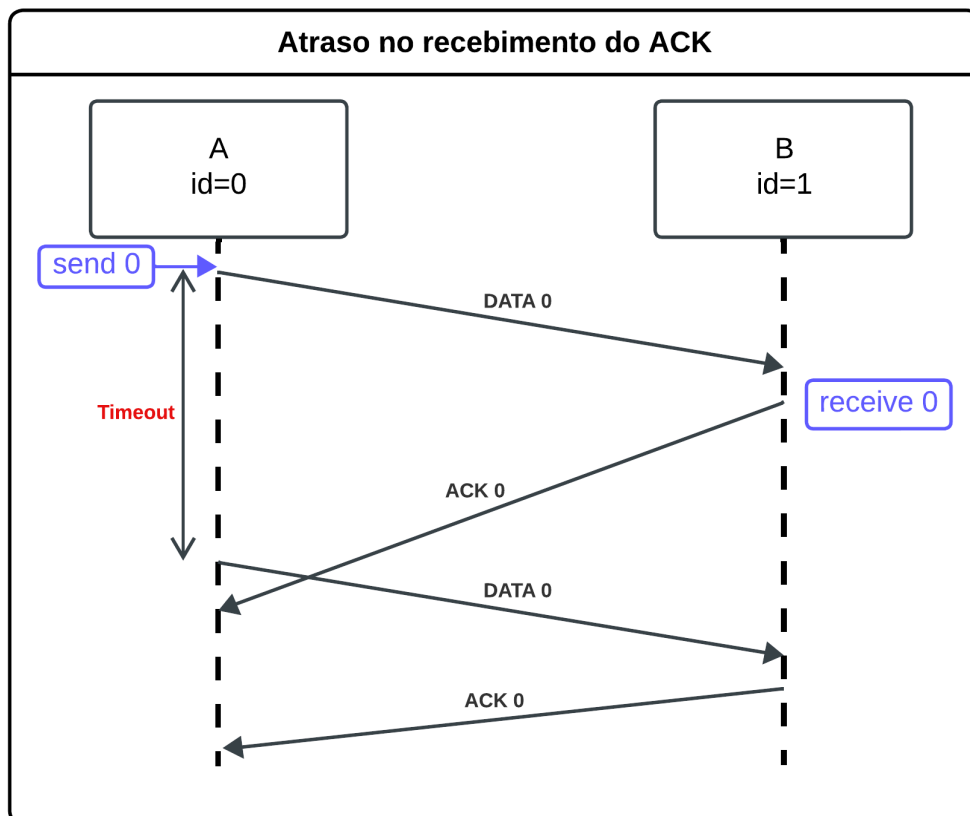
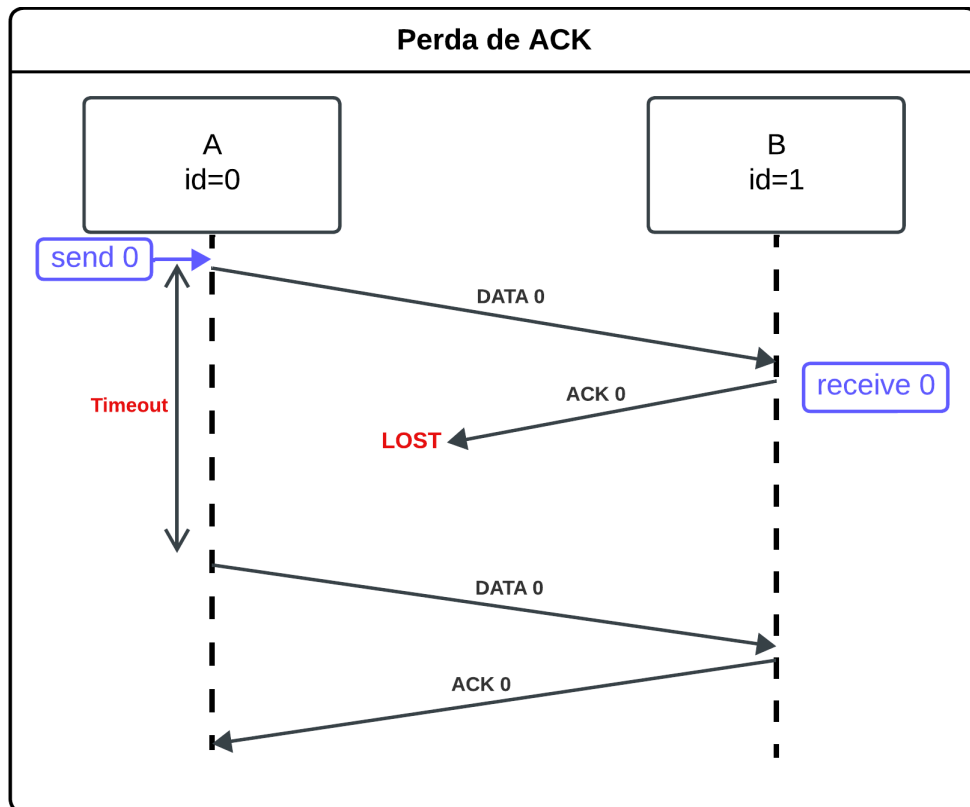




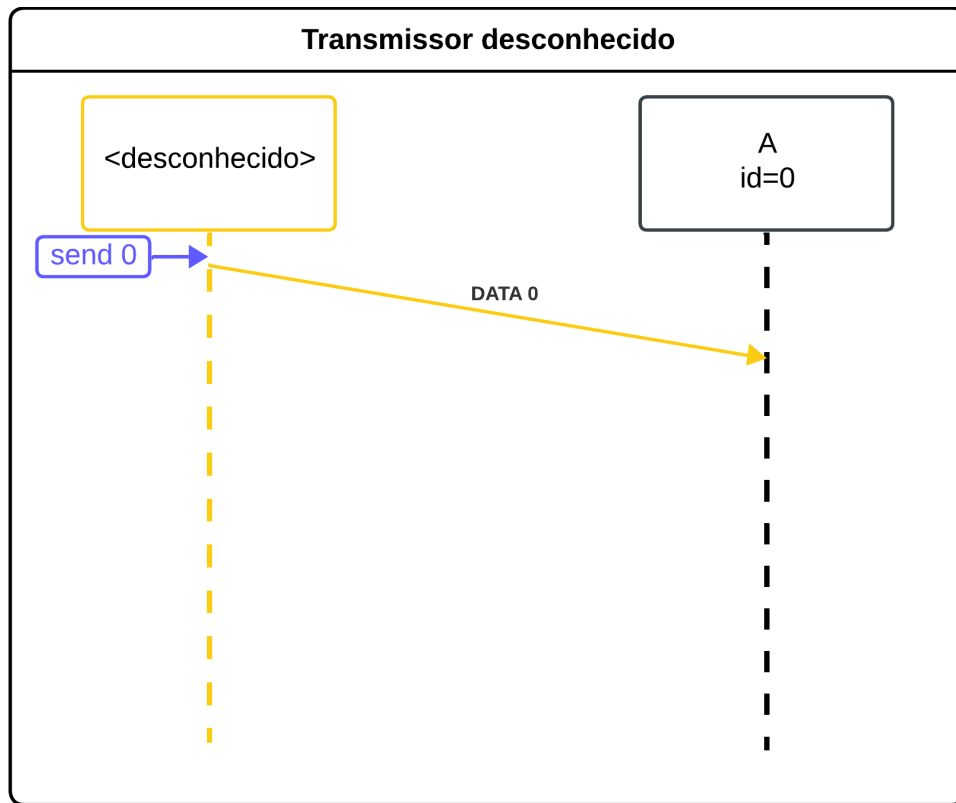
4. Entrega confiável



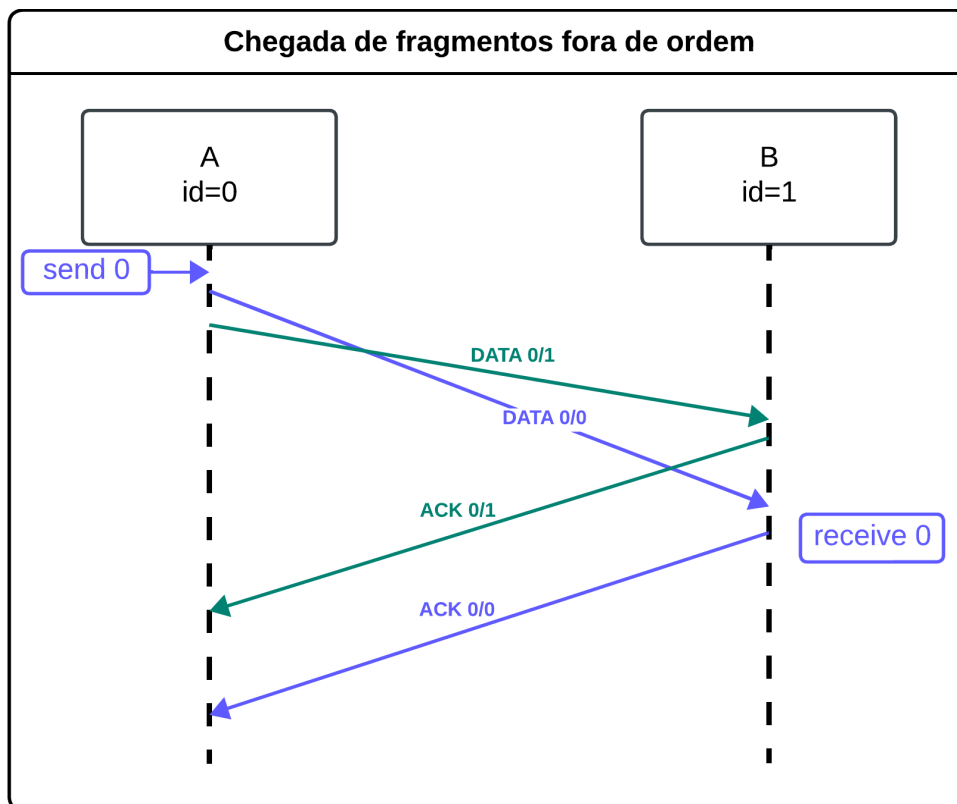
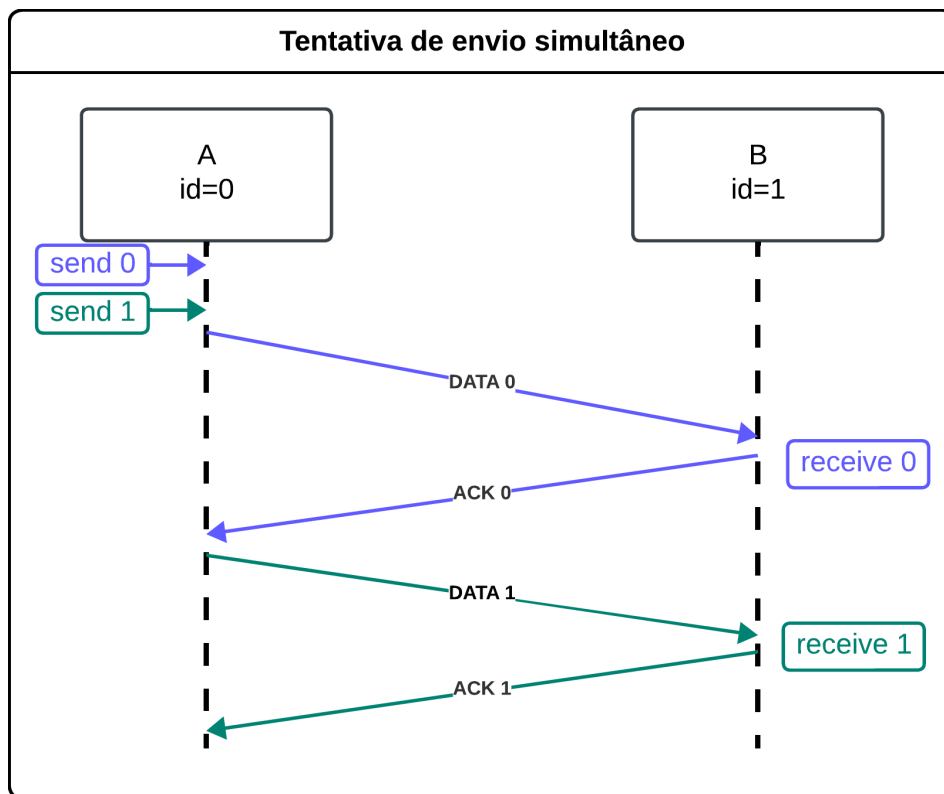
5. Não duplicação



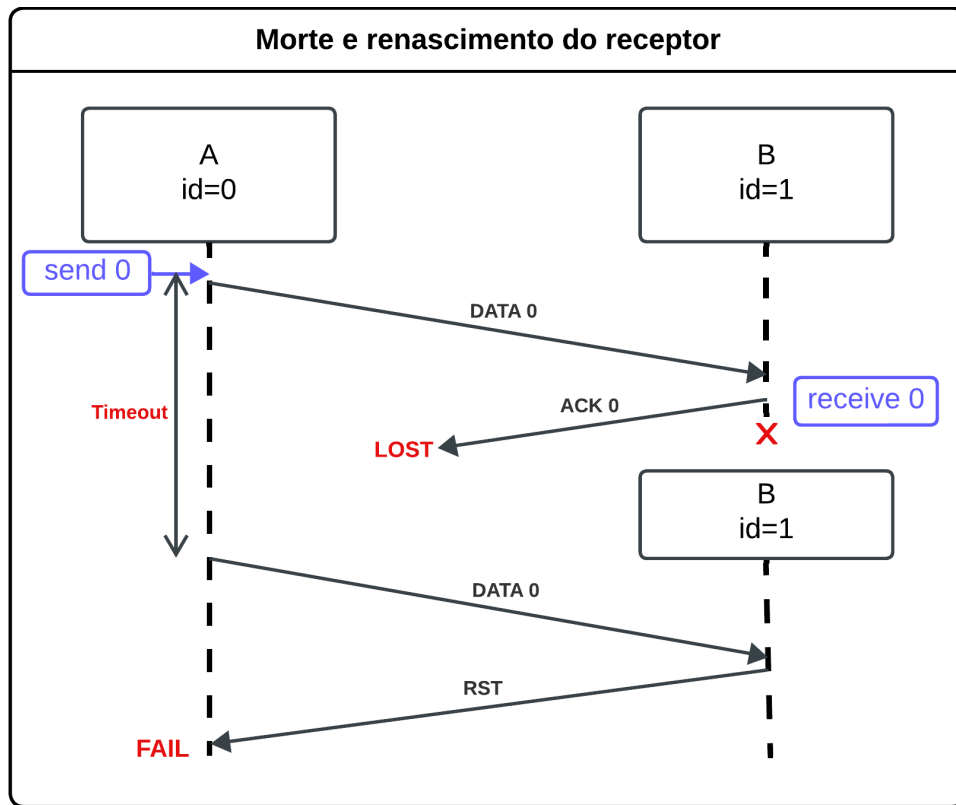
6. Não criação



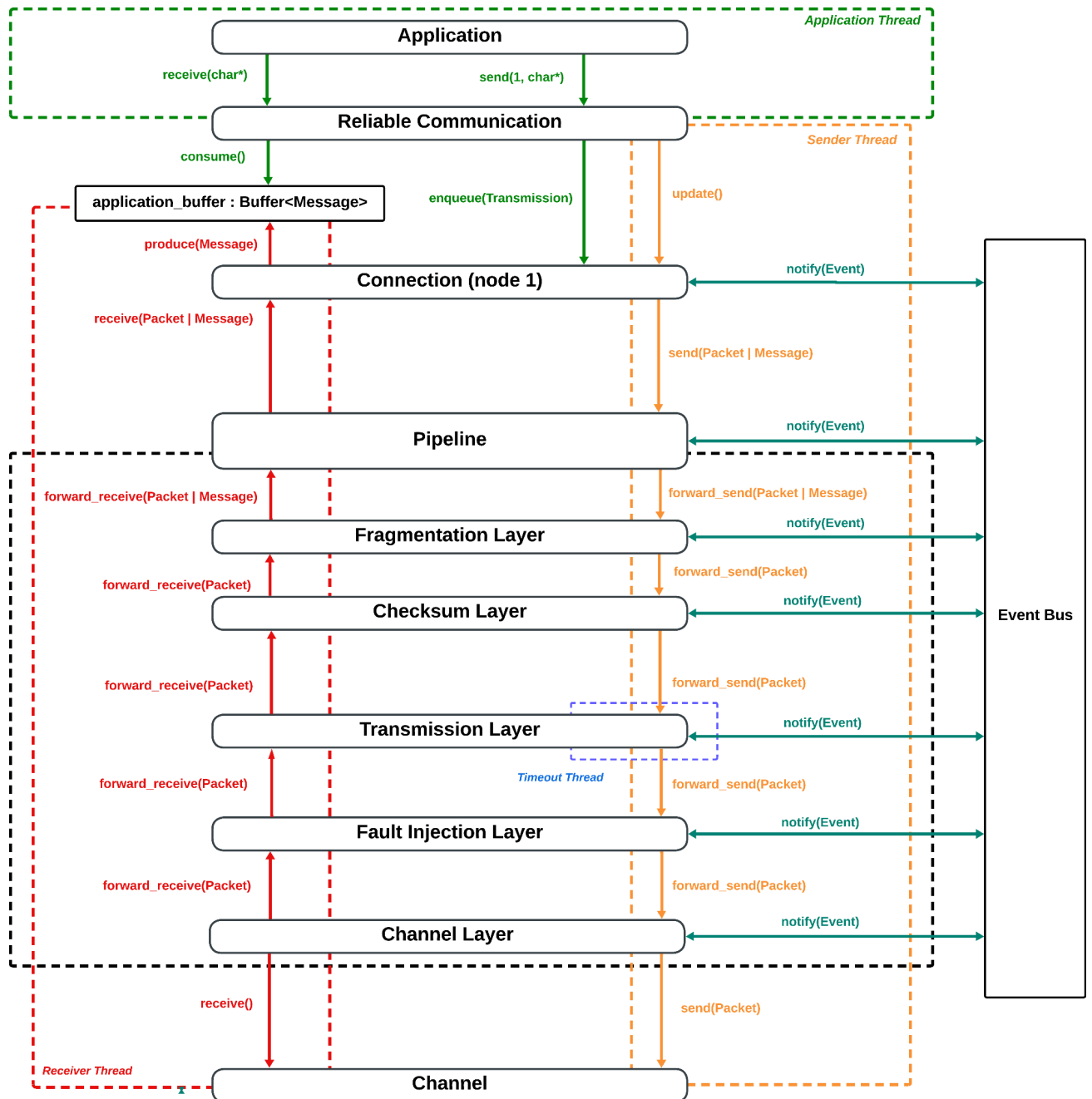
7. Ordem de entrega



8. Limitações



9. Estrutura da biblioteca



10. Estrutura do Pipeline

