universität innsbruck



Making CoAP.NET great again!

Is it worth to await?

Philip Wille

Introduction

• Synchronous and asynchronous execution

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- Task-based Asynchronous Pattern (TAP)



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- Synchronous and asynchronous execution
- Task-based Asynchronous Pattern (TAP)
- Constrained Application Protocol (CoAP)



Write synchronous code in C#

```
public List<Person> GetAll()
2
        var persons = this.context.Persons.ToList();
3
        return persons;
6
    public void PrintPersons()
8
        foreach (var person in persons.GetAll())
9
10
            Console.WriteLine(person);
11
13
```

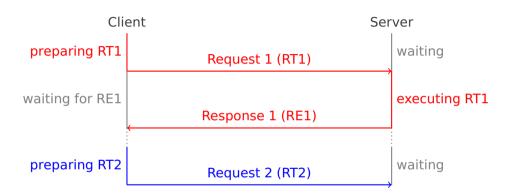


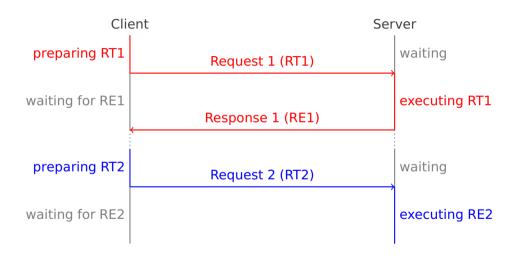


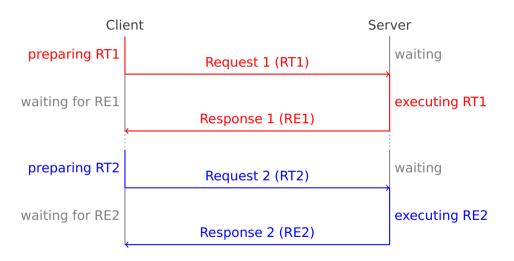








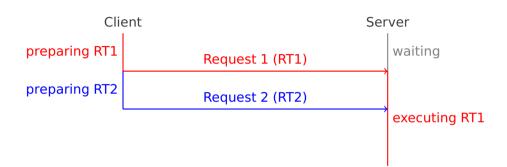


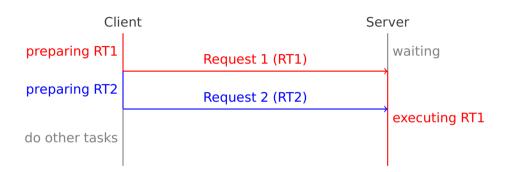


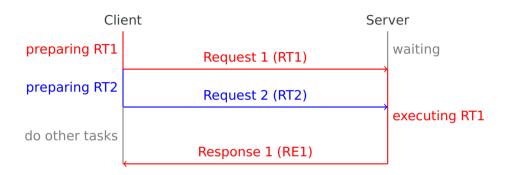


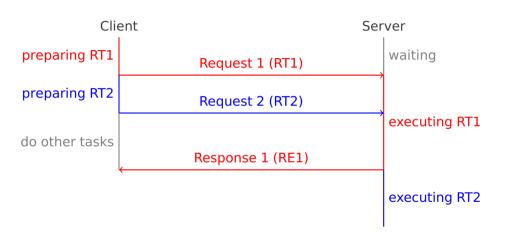


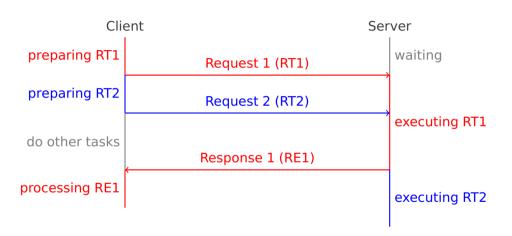


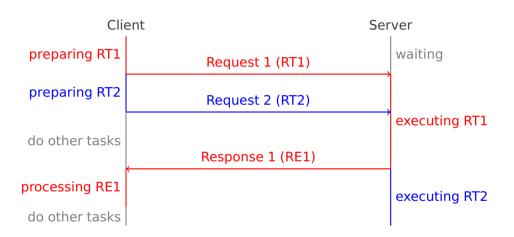


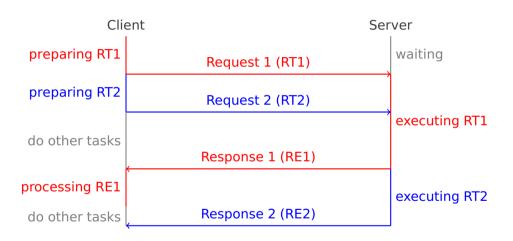


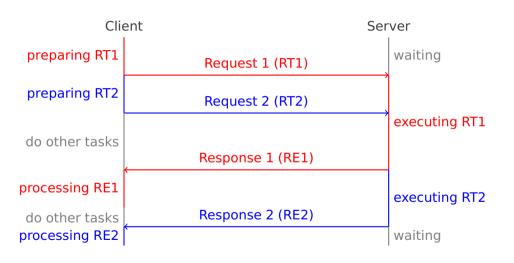












Write asynchronous code in C#

```
public Task<List<Person■ GetAllAsync(CancellationToken cancellationToken)
2
        var persons = this.context.Persons.ToListAsync(cancellationToken);
3
        return persons:
6
    public async Task PrintPersonsAsync(CancellationToken cancellationToken)
8
        var persons = await persons.GetAllAsync(cancellationToken).ConfigureAwait(false);
9
        foreach (var person in persons)
10
11
            Console.WriteLine(person);
12
13
```