async yield() : Task`1<string>

<yield>d\_\_0

Analysis

(TypeAttributes) AutoLayout, AnsiClass, Class, NestedPrivate, Sealed, BeforeFieldInit

CompilerGenerated

Base Type : ValueType

Implements (1)

Declaring Assembly

Declaring Type

<>1\_\_state : int

<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

MoveNext() : void

Analysis

Attributes

Base Definition

Defined As (1)

Signature Types

Declaring Module

Declaring Type

loc.0 <- 0x0000 ldc.i4.1 1 (0x00000001)

loc.1 <- 0x0015 ldstr "foo"

loc.2 <- catch Exception

loc.3 <- 0x0003 ldfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>1\_\_state : int

maxstack 2

IL Code (37)

.try

0x0000 . ldc.i4.1 1 (0x00000001)

0x0001 stloc.0 loc.0 : bool

0x0002 . ldarg.0 this [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+struct <yield>d\_\_0

0x0003 . ldfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>1\_\_state : int

0x0008 stloc.3 loc.3 : int

0x0009 . ldloc.3 ?

0x000a . . ldc.i4.s -3 (0xfffffffd)

0x000c beq.s

0x000c -> 0x000e 0x0010

0x000c -> 0x000e br.s

0x000e br.s

0x0012 br.s

0x0014 nop

0x0015 . ldstr "foo"

0x001a stloc.1 loc.1 : string

0x001b leave.s

.endtry

0x0037 nop

0x0038 . ldarg.0 this [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+struct <yield>d\_\_0

0x0039 . . ldc.i4.s -2 (0xfffffffe)

0x003b stfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>1\_\_state : int

0x0040 . ldarg.0 this [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+struct <yield>d\_\_0

0x0041 . ldflda [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

0x0046 . . ldloc.1 result <- loc.1 : string

0x0047 call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.SetResult(result : string) : void

0x004c nop

0x0035 0x004c -> 0x004d

0x000c -> 0x0010 br.s

0x0010 br.s

0x001d leave.s

.endtry

.catch Exception

[mscorlib] System.Exception

0x001f stloc.2 loc.2 : Exception

0x0020 . ldarg.0 this [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+struct <yield>d\_\_0

0x0021 . . ldc.i4.s -2 (0xfffffffe)

0x0023 stfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>1\_\_state : int

0x0028 . ldarg.0 this [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+struct <yield>d\_\_0

0x0029 . ldflda [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

0x002e . . ldloc.2 exception <- loc.2 : Exception

0x002f call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.SetException(exception : Exception) : void

0x0034 nop

0x0035 leave.s

.endtry

SetStateMachine(IAsyncStateMachine) : void

Analysis

Attributes

Signature Types

Declaring Module

Declaring Type

loc.0 : struct <yield>d\_\_0

loc.1 <- 0x002c call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.get\_Task() : Task`1<string>

loc.2 <- 0x0016 ldfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

maxstack 2

IL Code (19)

0x0000 . ldloca.s loc.0 : struct <yield>d\_\_0

0x0002 . . call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.async Create() : AsyncTaskMethodBuilder`1

0x0007 stfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

0x000c . ldloca.s loc.0 : struct <yield>d\_\_0

0x000e . . ldc.i4.m1 -1 (0xffffffff)

0x000f stfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>1\_\_state : int

0x0014 . ldloca.s loc.0 : struct <yield>d\_\_0

0x0016 . ldfld [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

0x001b stloc.2 loc.2 : struct AsyncTaskMethodBuilder`1<string>

0x001c . ldloca.s loc.2 : struct AsyncTaskMethodBuilder`1<string>

0x001e . . ldloca.s stateMachine <- loc.0 : struct <yield>d\_\_0

0x0020 call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.Start(stateMachine : ref struct <yield>d\_\_0) : void

0x0025 . ldloca.s loc.0 : struct <yield>d\_\_0

0x0027 . ldflda [TrivialAsyncFromResult] TrivialAsyncFromResult.Program+<yield>d\_\_0.<>t\_\_builder : struct AsyncTaskMethodBuilder`1<string>

0x002c . call [mscorlib] System.Runtime.CompilerServices.struct AsyncTaskMethodBuilder`1<string>.get\_Task() : Task`1<string>

0x0031 stloc.1 loc.1 : Task`1<string>

0x0032 br.s

0x0034 . ldloc.1 loc.1 : Task`1<string>

0x0035 ret