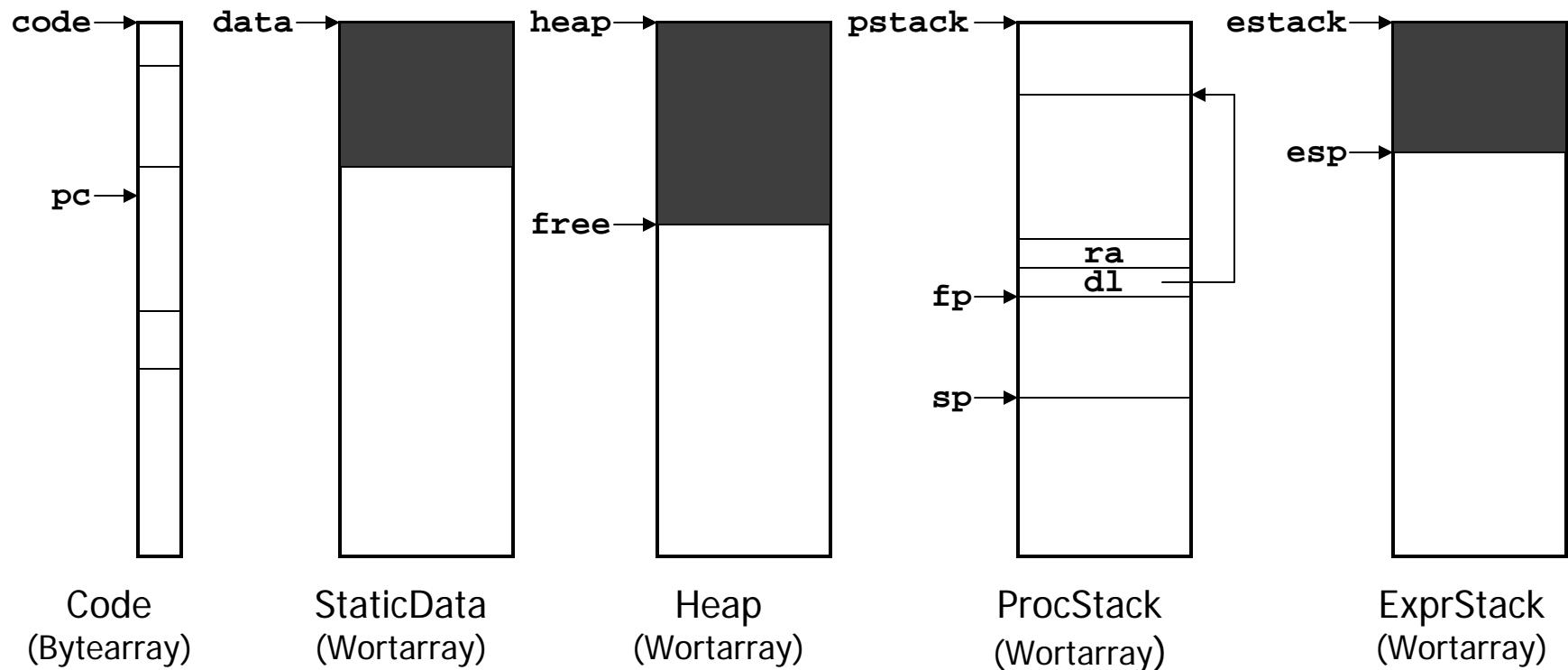


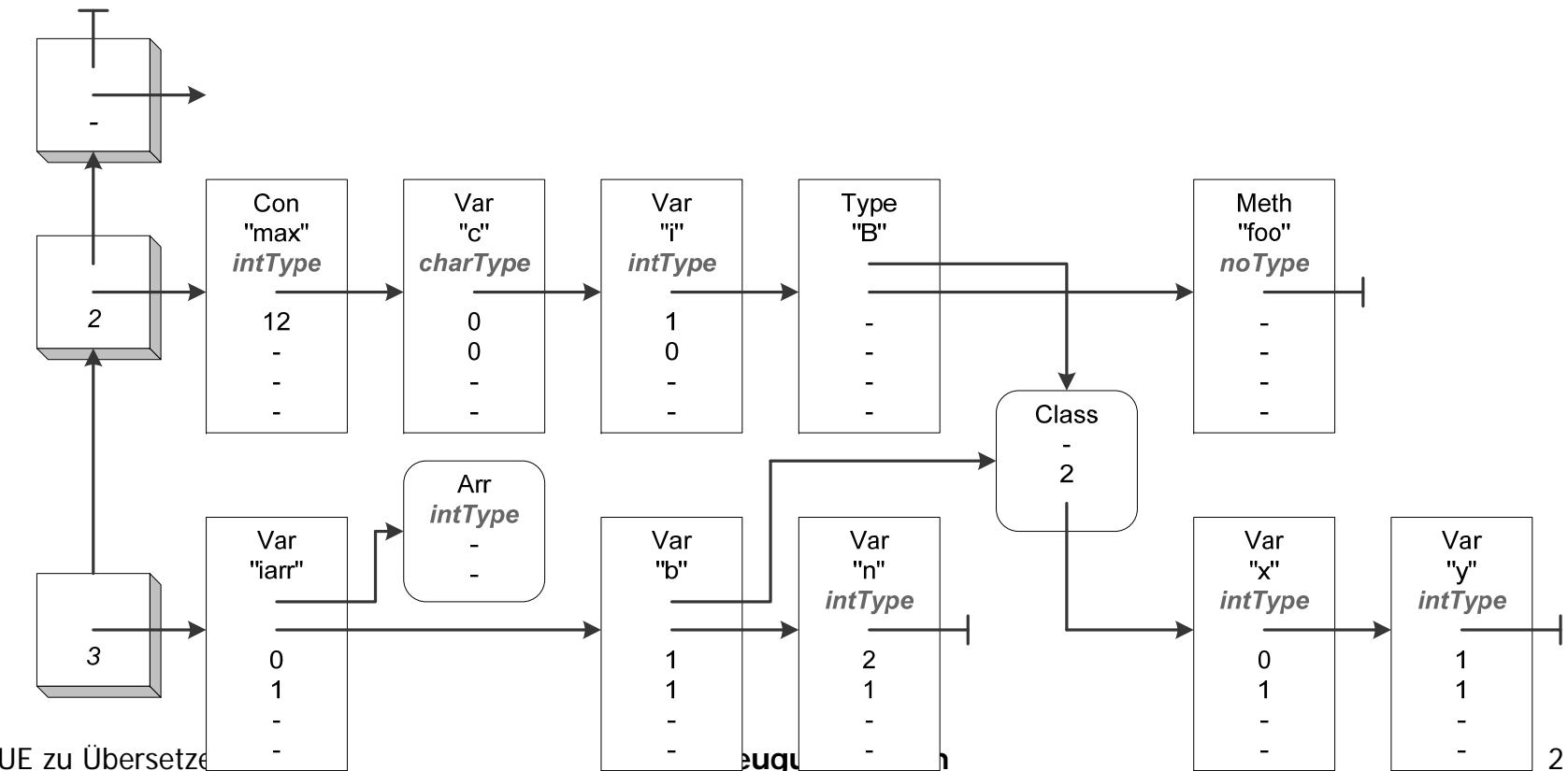
MicroJava VM: Speicher-Layout



Symboltabelle

Deklaration: program A

```
final int max = 12;           // Konstante
char c; int i;                // globale Variablen
class B { int x, y; }         // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```



Bsp 1: **n = 3;**

Deklaration: **program A**

```
    final int max = 12;       // Konstante  
    char c; int i;            // globale Variablen  
    class B { int x, y; }    // innere Klasse mit Feldern  
    { void foo () int[] iarr; B b; int n; ... }   }
```

const_3 = 2 byte
store_2

Bsp 2: **i = 10;**

Deklaration: program A

```
    final int max = 12;       // Konstante
    char c; int i;            // globale Variablen
    class B { int x, y; }    // innere Klasse mit Feldern
    { void foo () int[] iarr; B b; int n; ... }    }
```

const 10 = **8 byte**
putstatic 1

Bsp 3: **n = 3 + i;**

Deklaration: program A

```
final int max = 12;           // Konstante
char c; int i;                // globale Variablen
class B { int x, y; }         // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

const_3 = **6** byte
getstatic 1
add
store_2

Bsp 4: **n = 3 + i * max - n;**

Deklaration: program A

```
final int max = 12;           // Konstante
char c; int i;                // globale Variablen
class B { int x, y; }         // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

const_3	= 14 byte
getstatic 1	
const 12	
mul	
add	
load_2	
sub	
store_2	

Bsp 5: **iarr[5] = 10;**

Deklaration: program A

```
    final int max = 12;        // Konstante
    char c; int i;            // globale Variablen
    class B { int x, y; }    // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

load_0 = **8** byte
const_5
const_10
astore

Bsp 6: **b.y = iarr[5] * 3;**

Deklaration: program A

```
    final int max = 12;              // Konstante
    char c; int i;                   // globale Variablen
    class B { int x, y; }          // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

load_1	= 9 byte
load_0	
const_5	
aload	
const_3	
mul	
putfield 1	

Bsp 7: **n--;**

Deklaration: **program A**

```
    final int max = 12;        // Konstante
    char c; int i;            // globale Variablen
    class B { int x, y; }    // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; { ... } }
```

inc 2 -1 = **3 byte**

Bsp 8: **i--;**

Deklaration: program A

```
    final int max = 12;         // Konstante
    char c; int i;             // globale Variablen
    class B { int x, y; }     // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

getstatic 1 const_m1 add putstatic 1	= 8 byte
---	-----------------

Bsp 9: **b.y--;**

Deklaration: program A

```
    final int max = 12;       // Konstante
    char c; int i;            // globale Variablen
    class B { int x, y; }    // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

load_1 = **10 byte**
dup
getfield 1
const_m1
add
putfield 1

Bsp 10: **iarr[0]--;**

Deklaration: program A

```
final int max = 12;           // Konstante
char c; int i;                // globale Variablen
class B { int x, y; }         // innere Klasse mit Feldern
{ void foo ()   int[] iarr; B b; int n;  {...} }
```

```
load_0          = 7 byte
const_0
dup2
aload
const_m1
add
astore
```