$$V_{.\langle id \rangle} = Z_\Omega; \quad \Rightarrow \quad Z_{.\langle id \rangle} = Z_\Omega;$$

$$Z_\Omega = V_{.\langle id \rangle}; \quad \Rightarrow \quad Z_\Omega = Z_{.\langle id \rangle};$$

Ejemplo

$$Z_{.opr} = Y_{.op1}; \quad \Longrightarrow \quad Z_{.opr} = Z_{.op1};$$

$$V_\Omega = V_\Omega; \quad \Rightarrow \quad \varepsilon$$

Ejemplo

$$F_{.opf} = F_{.opf};$$
$$F\text{--}; \quad \Longrightarrow \quad F\text{--};$$

$$Z_\Omega = \&V_n; \quad \Rightarrow \quad \begin{aligned} Z_\Omega &= Z_{:top}; \\ Z_\Omega &\mathrel{+}= n; \end{aligned}$$

Ejemplo

$$Z_{.op1} = \&Y_8; \quad \Longrightarrow \quad \begin{aligned} Z_{.op1} &= Z_{:\mathbf{top}}; \\ Z_{.op1} &\mathrel{+}= 8; \end{aligned}$$

$$Z_\Omega = \&V_n[\langle vindx_1 \rangle]; \quad \Rightarrow \quad \begin{aligned} Z_{.indr} &= \langle vindx_1 \rangle; \\ Z_\Omega &= \&V_n; \\ Z_\Omega &\mathrel{+}= Z_{.indr}; \end{aligned}$$

Ejemplo

$Z_{.op1} = \&Y_8[13];$

$\Rightarrow$

$Z_{.indr} = 13;$

$Z_{.op1} = \&Y_8;$

$Z_{.op1} \mathrel{+}= Z_{.indr};$

$Z_\Omega = \&V_n\$k_1\langle dims_1\rangle[\lambda_1][\lambda_2]$ →

$Z_{.ind1} = k_1;$
$Z_{.ind2} = \lambda_1;$
$Z_{.indr} = Z_{.ind1} * Z_{.ind2};$
$Z_{.ind1} = \lambda_2;$
$Z_{.indr} \mathrel{+}= Z_{.ind1};$
$Z_\Omega = \&V_n\langle dims_1\rangle[Z_{.indr}]$

Ejemplo

$Z_{.op1} = \&foo\$12\$15[7][Y_{23}][4];$

$\Rightarrow$

$Z_{.ind1} = 12;$

$Z_{.ind2} = 7;$

$Z_{.indr} = Z_{.ind1} * Z_{.ind2};$

$Z_{.ind1} = Y_{23};$

$Z_{.indr} \mathrel{+}= Z_{.ind1};$

$Z_{.op1} = \&foo\$15[Z_{.indr}][4];$

$\Rightarrow$

... $\Rightarrow$

$\ldots$

$Z_{.ind1} = 15;$

$Z_{.ind2} = Z_{.indr};$

$Z_{.indr} = Z_{.ind1} * Z_{.ind2};$

$Z_{.ind1} = 4;$

$Z_{.indr} \mathrel{+}= Z_{.ind1};$

$Z_{.op1} = \&foo[Z_{.indr}];$
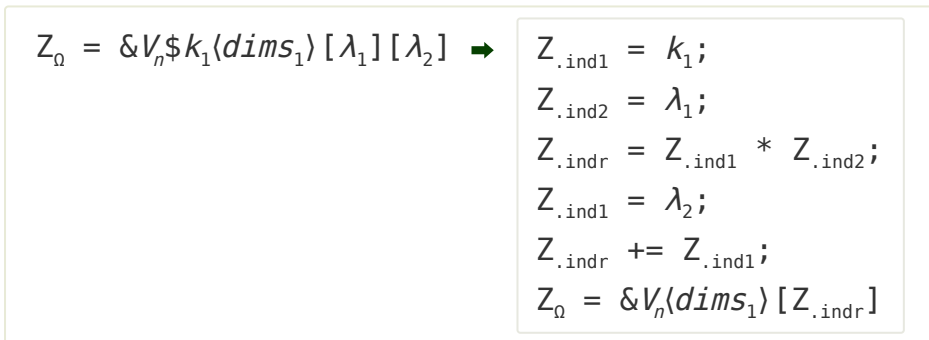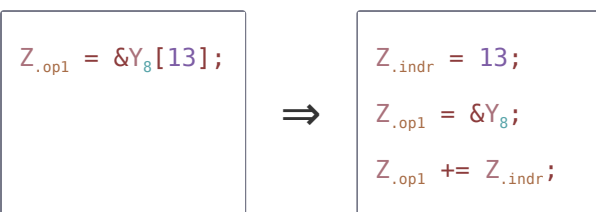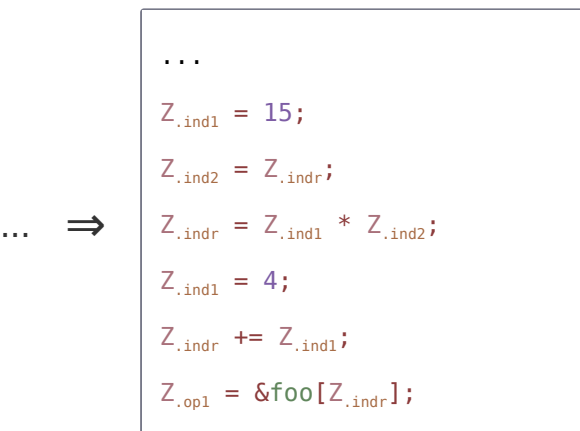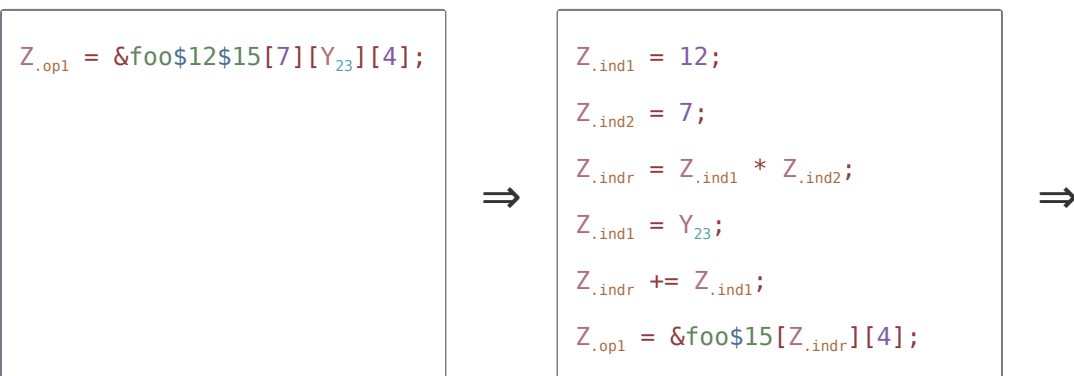
```
'⟨simb₁⟩'  ➡  c
```

donde *c* es el ⟨*natural*⟩ que representa el código del símbolo Unicode ⟨*simb₁*⟩.

Ejemplo

```
foo = 'G';
```
$\Longrightarrow$
```
foo = 71;
```

:ajustar:

Sea

```
:ajustar:{
    texto₁
}
```

y Ξ cualquier Ω distinto de **:change**.

- Si *texto₁* no es ⟨*preinstrucciones*⟩:

```
:ajustar:{      :ajustar:{
    texto₁   ➡      texto₂
}               }
```

  donde *texto₂* es ⟨*preinstrucciones*⟩, resultado de expandir macroinstrucciones en *texto₁*.

- Si *texto₁* es ⟨*preinstrucciones*⟩:

```
:ajustar:{   ➡   ε
}
```

```
:ajustar:{                 :ajustar:{
    ⟨preinstrucciones₁⟩ ➡      ⟨preinstrucciones₁⟩
    x⁼                         }
}                          x⁼
```

```
:ajustar:{                    ➡    Z_{:i} = Z_{posf}
   ⟨preinstrucciones₁⟩                :ajustar:{
   x:change                              ⟨preinstrucciones₁⟩
}                                     }
                                      x                          ←:i
```

$$Z_\Omega = V_n\langle dims_1\rangle\langle indxs_1\rangle; \;\Rightarrow\; \begin{array}{l} Z_{.adjp} = \&V_n\langle dims_1\rangle\langle indxs_1\rangle; \\ \texttt{:ajustar:\{} \\ \quad Z_\Omega = Z_{.change}; \\ \texttt{\}} \end{array}$$

Ejemplo

$$Z_{.op2} = Y_7; \qquad \Longrightarrow \qquad \begin{array}{l} Z_{.adjp} = \&Y_7; \\ \textbf{:ajustar:\{} \\ \quad Z_{.op2} = Z_{.change}; \\ \textbf{\}} \end{array}$$

$$V_n\langle dims_1\rangle\langle indxs_1\rangle = Z_\Omega; \;\Rightarrow\; \begin{array}{l} Z_{.adjp} = \&V_n\langle dims_1\rangle\langle indxs_1\rangle; \\ \texttt{:ajustar:\{} \\ \quad Z_{.change} = Z_\Omega; \\ \texttt{\}} \end{array}$$

Ejemplo

$$F_7[13] = Z_{.res1}; \qquad \Longrightarrow \qquad \begin{array}{l} Z_{.adjp} = \&F_7[13]; \\ \textbf{:ajustar:\{} \\ \quad Z_{.change} = Z_{.res1}; \\ \textbf{\}} \end{array}$$

$$Z_\Omega = {*}V_\Phi'; \implies \begin{array}{l} Z_{.adjp} = V_\Phi'; \\ \texttt{:ajustar:\{} \\ \qquad Z_\Omega = Z_{.change}; \\ \texttt{\}} \end{array}$$

Ejemplo

$$Z_{.op2} = {**}Y_7; \implies \begin{array}{l} Z_{.adjp} = {*}Y_7; \\ \texttt{:ajustar:\{} \\ \qquad Z_{.op2} = Z_{.change}; \\ \texttt{\}} \end{array} \implies \begin{array}{l} Z_{.adjp} = Y_7; \\ \texttt{:ajustar:\{} \\ \qquad Z_{.adjp} = Z_{.change}; \\ \texttt{\}} \\ \texttt{:ajustar:\{} \\ \qquad Z_{.op2} = Z_{.change}; \\ \texttt{\}} \end{array}$$

$${*}V_\Omega = Z_\Phi; \implies \begin{array}{l} Z_{.adjp} = V_\Omega'\,\langle dims_1\rangle\langle indxs_1\rangle; \\ \texttt{:ajustar:\{} \\ \qquad Z_{.change} = Z_\Phi; \\ \texttt{\}} \end{array}$$

Ejemplo

$${*}F_7[13] = Z_{.res1}; \implies \begin{array}{l} Z_{.adjp} = F_7[13]; \\ \texttt{:ajustar:\{} \\ \qquad Z_{.change} = Z_{.res1}; \\ \texttt{\}} \end{array}$$

⚠ *Nota sobre C*: la equivalencia en el uso de variables puntero y variables array no se recoge en las macros.