

Note

5.6. S.G.

STACK (32, 2stack, por)

2018-10-20

Starta generic type 2018-11-02

Procede Subnoutines on orbitrary types:

push (array of T, T); array of T

⇒ a) for non-reference types, compile anew;

6) for reference types, use type erasure:

push (array of (T), (T)): array of (T)

push (array of (ref T), (ref T);

of solves also the new array of (T) problems Containers of previously unknown

a) type array of T = --type list of T = struct of next: list of T) /ox, ref value: T; // Ok, last field

> resolved at the coole generation time with real type attributes;

V Works only for bytecode inline subroutines? (mostly operators) VV Problems with implementing native Starta subroutines "list of T list of (T) Current implementation; assumes that all types fit one stackcell. & A lot of problems: - Can not compile to Java bytecode - Can not implement I new TI10] for a generic T - Implementations are inefficient and can not be early optimised. -> remove from the language? Generic types of the "3-rd way" are ony needed for: push(T[];T)→T[] or all reference types T; > will have to include a parametrised module for non-reference Ts, but that's probable ok (i.e. not too much burden/overhead) - length (array of T) > defined for reference type 'array of T' anyway... - trim (array of T): array of T > defined only for the reference type array of T' anyway - same for I clone ()

- sort(array of type T a; function cmp(T a; T b) -> bool): array of T;