bioinformatica
247.249.719
bps
Straight-Line Programs (*SLP*)
SLP
grammatica context-free ? grammar-based compressione
Σ
$s = a_1, a_2, \ldots, a_n \in \Sigma^*$
n
Σ
$a_i \in \Sigma \forall i 1 \leq i \leq n$
$alph(s) = \{a_1, a_2, \ldots a_n\}$
s
SLP
Σ
$\mathcal{A}$
$\mathcal{A} = (\mathcal{V}, \Sigma, \mathcal{S}, \mathcal{P})$ (1)
$\mathcal{V}$
Σ
$\mathcal{S} \in \mathcal{V}$
$\mathcal{P}$
$\mathcal{P} \subseteq \mathcal{V} \times (\mathcal{V} \cup \Sigma)^*$ (2)
SLP
$(A, \alpha) \in \mathcal{P}$
$\forall A \in \mathcal{V}$
$\alpha \in (\mathcal{V} \cup \Sigma)^*$
(A, α)
$A \rightarrow \alpha$
$\{(A, B) \mid (A, \alpha) \in \mathcal{P},\ B \in alph(\alpha)\}$
$|\mathcal{A}| = \sum_{(A,\alpha)\in\mathcal{P}} |\alpha|$ (3)
$\mathcal{A}$
SLP
$eval(\mathcal{A})$
SLP
$\mathcal{A}$
albero di derivazione
albero radicato e ordinato
radice
$\mathcal{S}$
nodo interno
$\mathcal{V} \cup \Sigma$
?
$s = \$$
SLP
$\stackrel{\rightarrow}{\$}$
$\stackrel{\rightarrow}{\rightarrow}$
$\stackrel{\rightarrow}{\rightarrow}$
albero di derivazione
?
tan