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