

...
com-
pres-
sione
run-
length
?
?

RLPBWT
naïve
SMEM
PBWT

X
M
N
ran-
dom
ac-
cess
RLPBWT

comp-
pres-
sione
run-
length
ma-
trice
PBWT
teste
di
run
 $\sigma =$
 $\sigma =$
 $\sigma =$

PBWT
 $\Sigma =$
 $\{0, 1\}$
??
 $start_k$

$k =$
 $\sigma =$
??
 s, r
 $s =$
 $\sigma =$
 $\sigma =$
 $\sigma =$

$\sigma =$
if
 $\gamma \bmod$
 $\gamma =$
 $\gamma =$
then
re-
turn

$\gamma =$
else
re-
turn
 $\gamma =$
if
 $\gamma \bmod$
 $\gamma =$

$\gamma =$
then
re-
turn
 $\gamma =$
else
re-
turn

$\gamma =$
 p_k
 k
 i
 $y_{i-1}^k[k] \neq y_i^k[k]$

(1)
 k
ma-
trice
PBWT
 $c[k]$
 u_k
 v_k
 $c[k]$
 p_k
 $\mathcal{O}(r)$

r
 k
RLPBWT
PBWT
 u_k
 v_k
 r
 $i \in$
 $\{0, \dots, M -$
 $1\}$
 u_k
 v_k
 σ
 u_k
 v_k
 u_k
 v_k

$y^5 = 00101111000000000000$
 $c[5] =$
 15
 y^5
 u_5
 v_5
 i
 $i \neq$