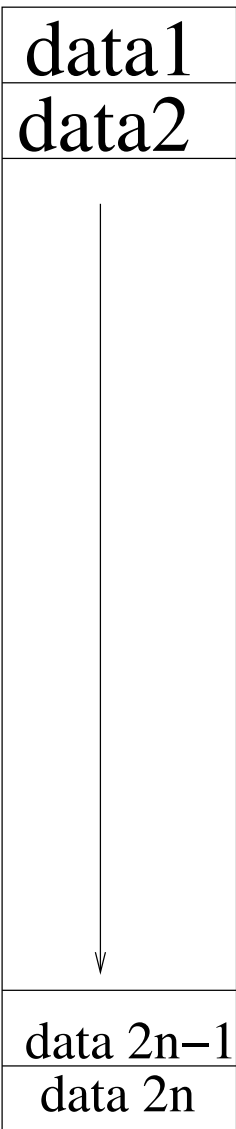
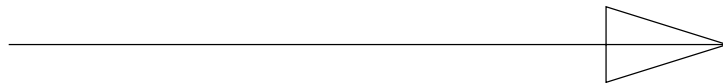


d=dimension of the input and output data



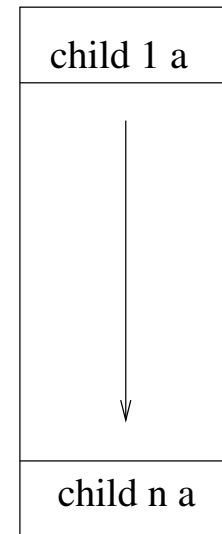
mean parent
variance parent

Sort the data
in direction $1 \leq \text{dir} \leq d$
and split according
to the median.

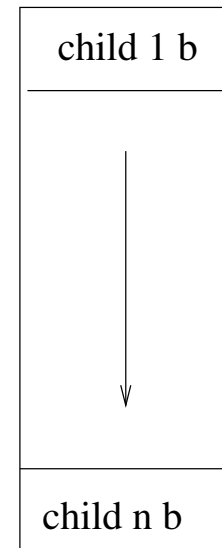


choose the critical direction
which maximizes the classification
variance reduction from parent to
children:

max (variance parent –
variance child a –
variance child b)



mean child a
variance child a



mean child b
variance child b