

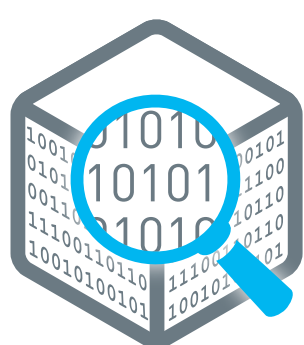
Variable Block Deduplication

vs

Fixed Block Deduplication

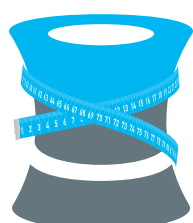


up to **6X**
MORE EFFICIENT



Finds More
redundancy
in the data

IMPROVED
DATA REDUCTION



REQUIRES

you to use
up to 6 times
the storage



CONSUMES

up to 6 times
the network
bandwidth
for replication



DEMANDS

MORE cooling,
MORE rack
space and
MORE power



Here's how it works:

Take a phrase, break it into blocks...

N O W I S T H E T I M E

Variable
block
size

N	O	W	
I	S		
T	H	E	
T	I	M	E

N	O	W	
I	S		T
H	E		T
I	M	E	

Fixed
block
size

Now add one character...

S N O W I S T H E T I M E

ONLY
ONE
block changes

S	N	O	W	
I	S			
T	H	E		
T	I	M	E	

S	N	O	W
	I	S	
T	H	E	
T	I	M	E

EVERY
BLOCK
changes

Variable-block algorithms divide data into blocks based on the characteristics of the data itself, not an arbitrary block size. **This makes them flexible when data changes.** Only the new or changed data is stored and **the uniqueness of the remainder of the file is not impacted.**



Business Benefits:

Deduplication enables new options for data protection, and makes previously expensive options viable.

Over time, infrastructure costs will dwarf the acquisition cost of a solution, so it pays to pay attention to them.

The greater the retention requirement for the data, the greater the benefits realized by variable-block deduplication.

Learn more about variable-block vs fixed-block deduplication in a side-by-side technical comparison

Visit: quantum.com/dedupe

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