required time for building a <u>associative</u> Array with N elements

Legend:
- $Dic.add()
- $Dic($i) =
- $Map[String($i)] =
- $Map[Int($i)] =
- $Hash.add()
- $Hash($i) =

Y-axis: $t\,[ms]$

X-axis: N
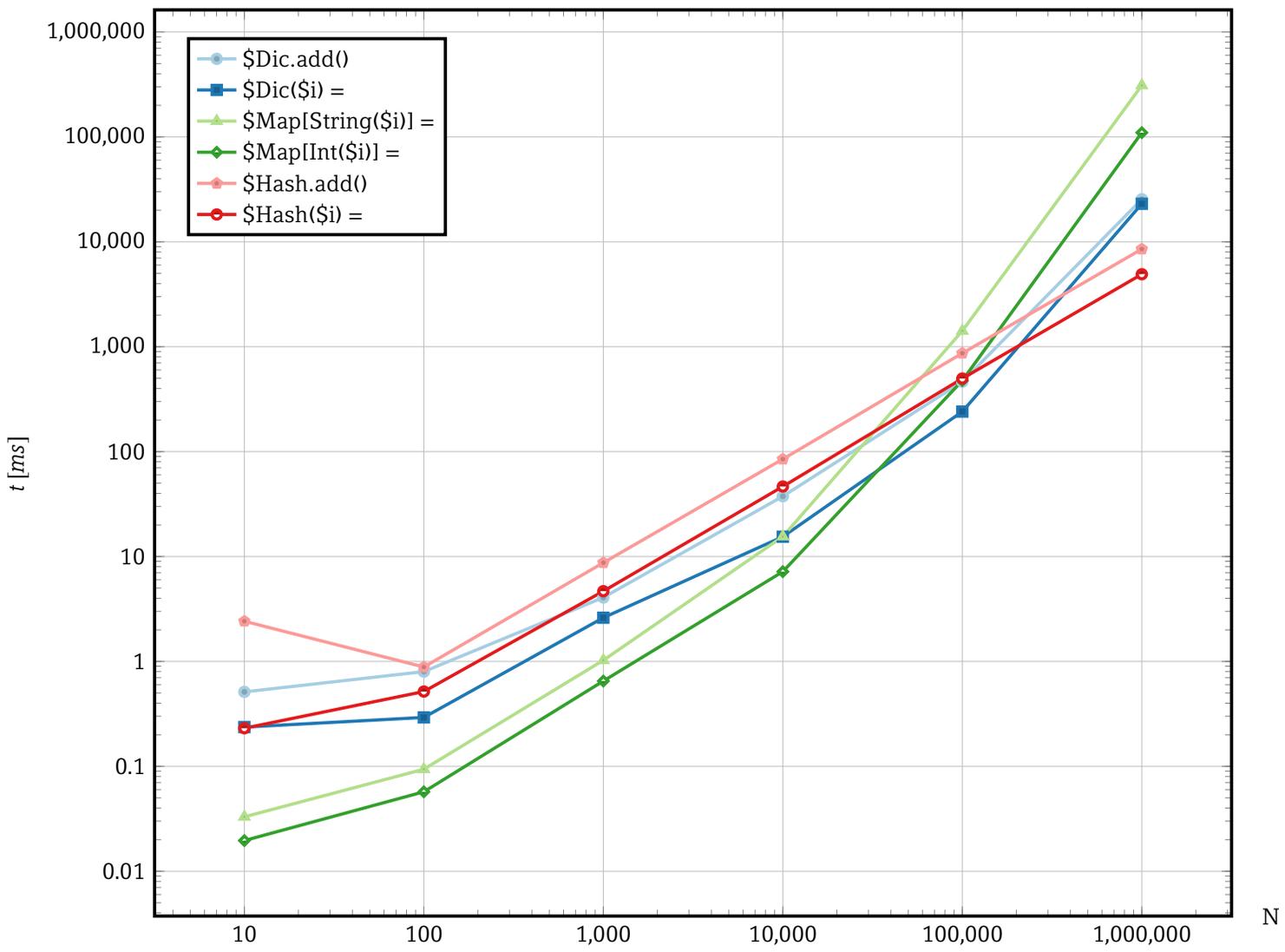
required time for building a <u>sequential</u> Array with N elements(dynamically add single elements)

Legend:
- MapAppend($Map,$i)
- $String& = $i & ";"
- ArrayList
- $Array[$i]=   (fixed size!)
- $Dic($i) =   (unsorted with $Dic.Items())

$t\,[ms]$ (vertical axis)

N (horizontal axis)
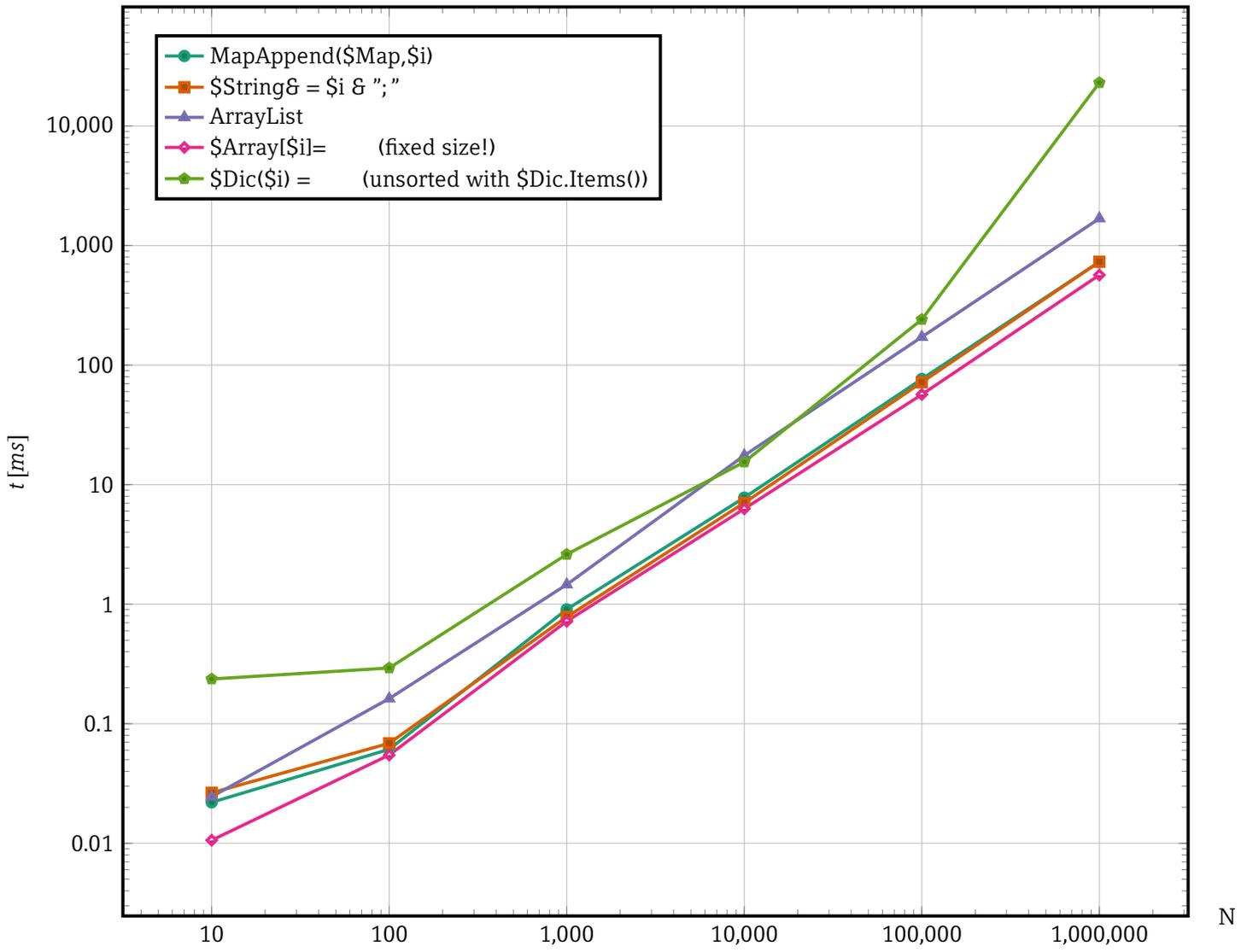
required time for reading all elements of a <u>associative</u> array with N elements(dynamically add single elements)

Legend:
- $Dic.Item($i)
- $Dic($i)
- $Map[String($i)]
- $Map[Int($i)]
- 2D-Array binary search
- 2D-Array interpolation search (special case)
- $Hash($i)

Y-axis: $t\,[ms]$

X-axis: N
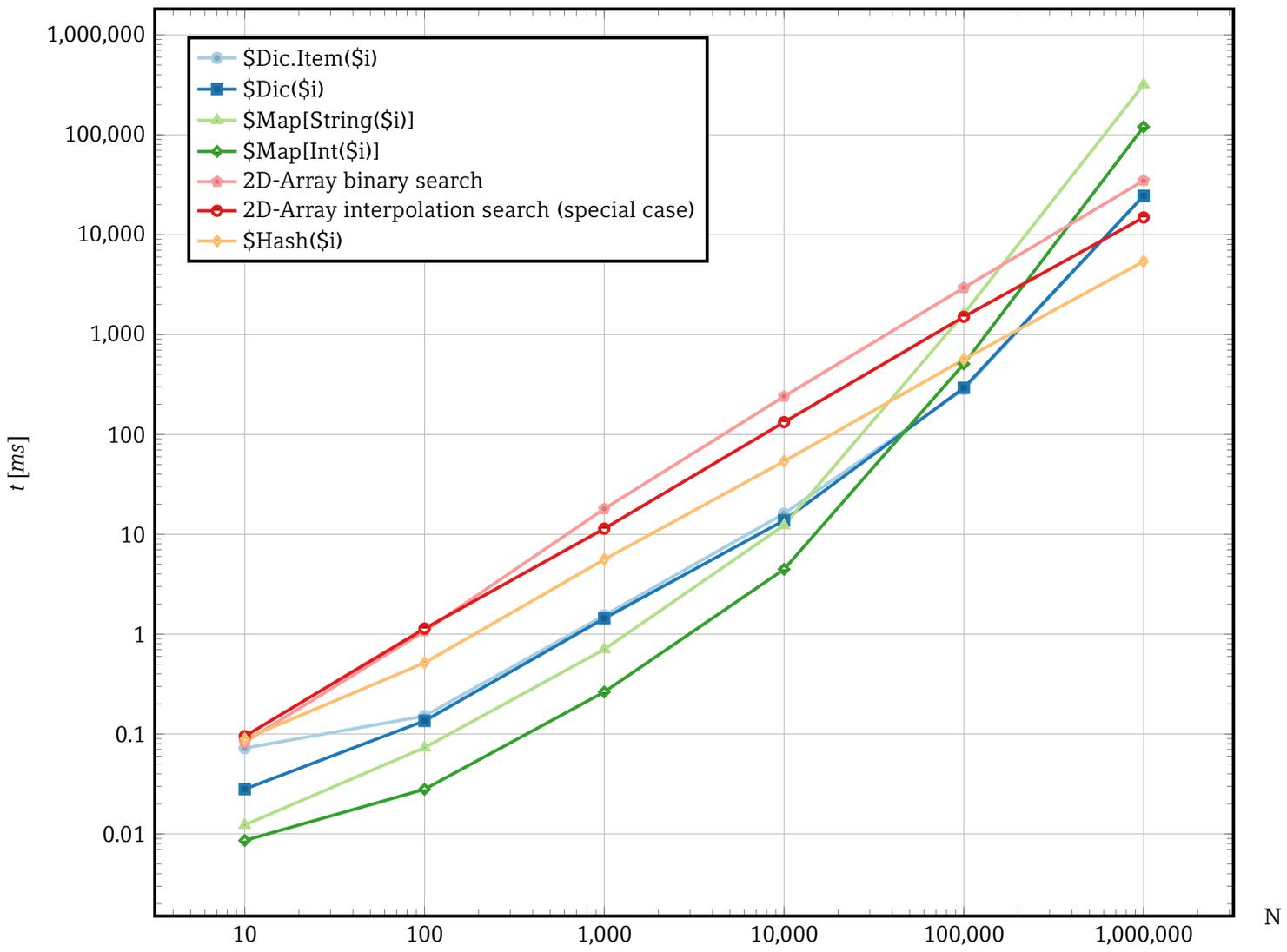
required time for reading all elements of a sequential array with N elements(dynamically add single elements)

Legend:
- $Array[$i]
- For $i In $Array
- For $i In $Map
- $Map[Int($i)]
- For $i In $Dic.Items()   (unsorted)

Y-axis: t [ms]
X-axis: N