Abstract

Modern data processing tasks involving high computation with huge data intensive work are not providing any usual response as they run over a conventional computing architecture, where the synergism capabilities of such machines are limited to single central processing unit. Improvement over such single processing architecture is not the big issue as many earlier
Cluster based Performance Evaluation of Run-length Image Compression

efforts in this era has been performed, which involves overlapped pipelined architectures. Later
the technology extends to involve multiple processing elements under the control of a common
clock. A current trend involves multiple central processing units. Despite of such efforts, another
way of achieving parallel effect is to make effective utilization of multi-computer hardware in the
form of massively parallel clustering over a local area network. Further the experiment lead to
the analysis of Run-length image compression over a network cluster-involving client – server
model of computation consisting software modules implemented via TCP/IP sockets for the
requirement of increased speedup as well as throughput. Finally, the conclusion containing
comparisons over clustered environment will be discussed.

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Index Terms

Computer Science    Signal Processing
Cluster based Performance Evaluation of Run-length Image Compression

Key words
Parallel Clustering  Multi-Computers  Run-length Image

Compression.