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may 17 2025 experimental results demonstrate the effectiveness of our method which outperforms traditional sparse attention
 approaches with more than 2 1x decoding speedup and higher energy

fastcar accelerates the video generation by replaying the feedforward layers with the attentive cache of the previous frame fastcar
 provides the complementary efficient technique for sparse attention

with more than 2 1 decoding speedup and higher energy efficiency on the edge furthermore by combining fastcar and sparse
 attention fastcar can boost the performance of sparse attention with

because mlp modules not attention dominate inference time enter fastcar a training free hardware aware optimization framework that
 accelerates ar video generation by caching and

we propose draftattention a method that accelerates video diffusion transformers by leveraging low resolution pooled attention maps to enable dynamic sparse attention and hardware efficient

we propose fastcar a framework to accelerate ar video generation on the edge we show that the similarity across adjacent frames correlates with attentivity and is independent with model depths

fastcar which explores temporal redundancy in auto regressive video generation and proposes a cache attentive replay mechanism to reduce redundant computations

may 17 2025 this survey provides a comprehensive overview of the critical components of diffusion models for video generation including their applications architectural design and temporal dynamics

auto regressive ar models initially successful in language generation have recently shown promise in visual generation tasks due to their superior sampling efficiency

this paper proposes to reformulate the video generation problem as a non quantized autoregressive modeling of temporal frame by frame prediction and spatial set by set prediction and trains a novel

proposes a trainable sparse attention mechanism that routes attention to important tokens in video diffusion models reducing training

flops by 2.5 and cutting inference latency from 31s to 18s

iclr 2026 conference withdrawn submission fastcar: cache attentive replay for fast auto regressive video generation on the edge
xuan shen weize ma yufa zhou enhao tang yanyue

fastcar represents a significant advancement in edge based video generation by cleverly using cache mechanisms. It makes video generation more practical on resource constrained devices.

□□ auto regressive ar models initially successful in language generation have recently shown promise in visual generation tasks due to their superior sampling efficiency.

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