

Edit

How to edit help result of llama.cpp? #9965



```
calebnwokocha 2 days ago
From source code, I built llama.cpp and entered -h, then the following help result showed:
                                                                                                  Q
  ---- common params ----
  -h,
        --help, --usage
                                          print usage and exit
                                          show version and build info
  --version
                                          print a verbose prompt before generation (default: false)
  --verbose-prompt
                                          number of threads to use during generation (default: -1)
  -t, --threads N
                                          (env: LLAMA_ARG_THREADS)
  -tb, --threads-batch N
                                          number of threads to use during batch and prompt
  processing (default:
                                          same as --threads)
  -C,
         --cpu-mask M
                                          CPU affinity mask: arbitrarily long hex. Complements cpu-
  range
                                          (default: "")
  -Cr, --cpu-range lo-hi
                                          range of CPUs for affinity. Complements --cpu-mask
  --cpu-strict <0|1>
                                          use strict CPU placement (default: 0)
  --prio N
                                          set process/thread priority : 0-normal, 1-medium, 2-high,
  3-realtime
                                          (default: 0)
  --poll <0...100>
                                          use polling level to wait for work (0 - no polling,
  default: 50)
  -Cb,
        --cpu-mask-batch M
                                          CPU affinity mask: arbitrarily long hex. Complements cpu-
  range-batch
                                          (default: same as --cpu-mask)
  -Crb, --cpu-range-batch lo-hi
                                          ranges of CPUs for affinity. Complements --cpu-mask-batch
                                          use strict CPU placement (default: same as --cpu-strict)
  --cpu-strict-batch <0|1>
  --prio-batch N
                                          set process/thread priority : 0-normal, 1-medium, 2-high,
  3-realtime
                                          (default: 0)
  --poll-batch <0|1>
                                          use polling to wait for work (default: same as --poll)
  -c,
         --ctx-size N
                                          size of the prompt context (default: 0, 0 = loaded from
  model)
                                          (env: LLAMA ARG CTX SIZE)
  -n, --predict, --n-predict N
                                          number of tokens to predict (default: -1, -1 = infinity,
  -2 = until
                                          context filled)
                                          (env: LLAMA_ARG_N_PREDICT)
```

edited -

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--batch-size N
                                        logical maximum batch size (default: 2048)
-b,
                                        (env: LLAMA_ARG_BATCH)
-ub, --ubatch-size N
                                        physical maximum batch size (default: 512)
                                        (env: LLAMA ARG UBATCH)
--keep N
                                        number of tokens to keep from the initial prompt (default:
0, -1 =
                                        all)
-fa, --flash-attn
                                        enable Flash Attention (default: disabled)
                                        (env: LLAMA_ARG_FLASH_ATTN)
      --prompt PROMPT
                                        prompt to start generation with
-p,
                                        if -cnv is set, this will be used as system prompt
--no-perf
                                        disable internal libllama performance timings (default:
false)
                                        (env: LLAMA_ARG_NO_PERF)
-f, --file FNAME
                                        a file containing the prompt (default: none)
-bf, --binary-file FNAME
                                        binary file containing the prompt (default: none)
      --escape
                                        process escapes sequences (\n, \r, \t, \', \", \\)
-е,
(default: true)
--no-escape
                                        do not process escape sequences
--rope-scaling {none,linear,yarn}
                                        RoPE frequency scaling method, defaults to linear unless
specified by
                                        the model
                                        (env: LLAMA_ARG_ROPE_SCALING_TYPE)
--rope-scale N
                                        RoPE context scaling factor, expands context by a factor
of N
                                        (env: LLAMA_ARG_ROPE_SCALE)
--rope-freq-base N
                                        RoPE base frequency, used by NTK-aware scaling (default:
loaded from
                                        model)
                                        (env: LLAMA_ARG_ROPE_FREQ_BASE)
--rope-freq-scale N
                                        RoPE frequency scaling factor, expands context by a factor
of 1/N
                                        (env: LLAMA ARG ROPE FREQ SCALE)
                                        YaRN: original context size of model (default: 0 = model
--yarn-orig-ctx N
training
                                        context size)
                                        (env: LLAMA_ARG_YARN_ORIG_CTX)
--yarn-ext-factor N
                                        YaRN: extrapolation mix factor (default: -1.0, 0.0 = full
                                        interpolation)
                                        (env: LLAMA_ARG_YARN_EXT_FACTOR)
                                        YaRN: scale sqrt(t) or attention magnitude (default: 1.0)
--yarn-attn-factor N
                                        (env: LLAMA_ARG_YARN_ATTN_FACTOR)
                                        YaRN: high correction dim or alpha (default: 1.0)
--yarn-beta-slow N
                                        (env: LLAMA ARG YARN BETA SLOW)
                                        YaRN: low correction dim or beta (default: 32.0)
--yarn-beta-fast N
                                        (env: LLAMA_ARG_YARN_BETA_FAST)
-dkvc, --dump-kv-cache
                                        verbose print of the KV cache
-nkvo, --no-kv-offload
                                        disable KV offload
                                        (env: LLAMA_ARG_NO_KV_OFFLOAD)
-ctk, --cache-type-k TYPE
                                        KV cache data type for K (default: f16)
                                        (env: LLAMA_ARG_CACHE_TYPE_K)
-ctv, --cache-type-v TYPE
                                        KV cache data type for V (default: f16)
                                        (env: LLAMA_ARG_CACHE_TYPE_V)
                                        KV cache defragmentation threshold (default: -1.0, < 0 -
-dt, --defrag-thold N
disabled)
                                        (env: LLAMA_ARG_DEFRAG_THOLD)
```

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number of parallel sequences to decode (default: 1)
      --parallel N
-np,
                                        (env: LLAMA ARG N PARALLEL)
--mlock
                                        force system to keep model in RAM rather than swapping or
compressing
                                        (env: LLAMA ARG MLOCK)
                                        do not memory-map model (slower load but may reduce
--no-mmap
pageouts if not
                                        using mlock)
                                        (env: LLAMA_ARG_NO_MMAP)
--numa TYPE
                                        attempt optimizations that help on some NUMA systems
                                        - distribute: spread execution evenly over all nodes
                                        - isolate: only spawn threads on CPUs on the node that
execution
                                        started on
                                        - numactl: use the CPU map provided by numactl
                                        if run without this previously, it is recommended to drop
the system
                                        page cache before using this
                                        see https://github.com/ggerganov/llama.cpp/issues/1437
                                        (env: LLAMA_ARG_NUMA)
                                        number of layers to store in VRAM
-ngl, --gpu-layers, --n-gpu-layers N
                                        (env: LLAMA_ARG_N_GPU_LAYERS)
      --split-mode {none,layer,row}
                                        how to split the model across multiple GPUs, one of:
-sm.
                                        - none: use one GPU only
                                        - layer (default): split layers and KV across GPUs
                                        - row: split rows across GPUs
                                        (env: LLAMA ARG SPLIT MODE)
-ts, --tensor-split N0,N1,N2,...
                                        fraction of the model to offload to each GPU, comma-
separated list of
                                        proportions, e.g. 3,1
                                        (env: LLAMA_ARG_TENSOR_SPLIT)
                                        the GPU to use for the model (with split-mode = none), or
       --main-gpu INDEX
-mg,
for
                                        intermediate results and KV (with split-mode = row)
(default: 0)
                                        (env: LLAMA_ARG_MAIN_GPU)
                                        check model tensor data for invalid values (default:
--check-tensors
false)
--override-kv KEY=TYPE:VALUE
                                        advanced option to override model metadata by key. may be
specified
                                        multiple times.
                                        types: int, float, bool, str. example: --override-kv
                                        tokenizer.ggml.add_bos_token=bool:false
--lora FNAME
                                        path to LoRA adapter (can be repeated to use multiple
adapters)
--lora-scaled FNAME SCALE
                                        path to LoRA adapter with user defined scaling (can be
repeated to use
                                        multiple adapters)
                                        add a control vector
--control-vector FNAME
                                        note: this argument can be repeated to add multiple
control vectors
--control-vector-scaled FNAME SCALE
                                        add a control vector with user defined scaling SCALE
                                        note: this argument can be repeated to add multiple scaled
control
                                        vectors
--control-vector-layer-range START END
```

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layer range to apply the control vector(s) to, start and
end inclusive
-m, --model FNAME
                                        model path (default: `models/$filename` with filename from
`--hf-file`
                                        or `--model-url` if set, otherwise models/7B/ggml-model-
f16.gguf)
                                        (env: LLAMA ARG MODEL)
-mu, --model-url MODEL_URL
                                        model download url (default: unused)
                                        (env: LLAMA_ARG_MODEL_URL)
-hfr, --hf-repo REPO
                                        Hugging Face model repository (default: unused)
                                        (env: LLAMA_ARG_HF_REPO)
-hff, --hf-file FILE
                                        Hugging Face model file (default: unused)
                                        (env: LLAMA ARG HF FILE)
-hft, --hf-token TOKEN
                                        Hugging Face access token (default: value from HF_TOKEN
environment
                                        variable)
                                        (env: HF_TOKEN)
-ld, --logdir LOGDIR
                                        path under which to save YAML logs (no logging if unset)
--log-disable
                                        Log disable
--log-file FNAME
                                        Log to file
--log-colors
                                        Enable colored logging
                                        (env: LLAMA_LOG_COLORS)
-v, --verbose, --log-verbose
                                        Set verbosity level to infinity (i.e. log all messages,
useful for
                                        debugging)
-lv, --verbosity, --log-verbosity N
                                        Set the verbosity threshold. Messages with a higher
verbosity will be
                                        ignored.
                                        (env: LLAMA_LOG_VERBOSITY)
--log-prefix
                                        Enable prefx in log messages
                                        (env: LLAMA_LOG_PREFIX)
                                        Enable timestamps in log messages
--log-timestamps
                                        (env: LLAMA_LOG_TIMESTAMPS)
---- sampling params -----
--samplers SAMPLERS
                                        samplers that will be used for generation in the order,
separated by
                                        (default: top_k;tfs_z;typ_p;top_p;min_p;xtc;temperature)
-s, --seed SEED
                                        RNG seed (default: -1, use random seed for -1)
--sampling-seq SEQUENCE
                                        simplified sequence for samplers that will be used
(default: kfypmxt)
--ignore-eos
                                        ignore end of stream token and continue generating
(implies
                                        --logit-bias EOS-inf)
--penalize-nl
                                        penalize newline tokens (default: false)
--temp N
                                        temperature (default: 0.8)
                                        top-k sampling (default: 40, 0 = disabled)
--top-k N
--top-p N
                                        top-p sampling (default: 0.9, 1.0 = disabled)
                                        min-p sampling (default: 0.1, 0.0 = disabled)
--min-p N
--tfs N
                                        tail free sampling, parameter z (default: 1.0, 1.0 =
disabled)
--xtc-probability N
                                        xtc probability (default: 0.0, 0.0 = disabled)
--xtc-threshold N
                                        xtc threshold (default: 0.1, 1.0 = disabled)
```

```
--typical N
                                        locally typical sampling, parameter p (default: 1.0, 1.0 =
disabled)
--repeat-last-n N
                                        last n tokens to consider for penalize (default: 64, 0 =
disabled, -1
                                        = ctx size)
                                        penalize repeat sequence of tokens (default: 1.0, 1.0 =
--repeat-penalty N
disabled)
--presence-penalty N
                                        repeat alpha presence penalty (default: 0.0, 0.0 =
disabled)
                                        repeat alpha frequency penalty (default: 0.0, 0.0 =
--frequency-penalty N
disabled)
                                        dynamic temperature range (default: 0.0, 0.0 = disabled)
--dynatemp-range N
--dynatemp-exp N
                                        dynamic temperature exponent (default: 1.0)
                                        use Mirostat sampling.
--mirostat N
                                        Top K, Nucleus, Tail Free and Locally Typical samplers are
ignored if
                                        used.
                                        (default: 0, 0 = disabled, 1 = Mirostat, 2 = Mirostat 2.0)
--mirostat-lr N
                                        Mirostat learning rate, parameter eta (default: 0.1)
--mirostat-ent N
                                        Mirostat target entropy, parameter tau (default: 5.0)
                                        modifies the likelihood of token appearing in the
      --logit-bias TOKEN_ID(+/-)BIAS
completion,
                                        i.e. `--logit-bias 15043+1` to increase likelihood of
token ' Hello',
                                        or `--logit-bias 15043-1` to decrease likelihood of token
' Hello'
--grammar GRAMMAR
                                        BNF-like grammar to constrain generations (see samples in
grammars/
                                        dir) (default: '')
--grammar-file FNAME
                                        file to read grammar from
      --json-schema SCHEMA
                                        JSON schema to constrain generations (https://json-
-j,
schema.org/), e.g.
                                        `{}` for any JSON object
                                        For schemas w/ external $refs, use --grammar +
                                        example/json_schema_to_grammar.py instead
---- example-specific params -----
--no-display-prompt
                                        don't print prompt at generation (default: false)
                                        colorise output to distinguish prompt and user input from
-co, --color
generations
                                        (default: false)
--no-context-shift
                                        disables context shift on inifinite text generation
(default:
                                        disabled)
                                        (env: LLAMA_ARG_NO_CONTEXT_SHIFT)
-ptc, --print-token-count N
                                        print token count every N tokens (default: -1)
--prompt-cache FNAME
                                        file to cache prompt state for faster startup (default:
none)
--prompt-cache-all
                                        if specified, saves user input and generations to cache as
well
--prompt-cache-ro
                                        if specified, uses the prompt cache but does not update it
      --reverse-prompt PROMPT
                                        halt generation at PROMPT, return control in interactive
-r,
mode
-sp,
      --special
                                        special tokens output enabled (default: false)
```

```
run in conversation mode:
-cnv, --conversation
                                        - does not print special tokens and suffix/prefix
                                        - interactive mode is also enabled
                                        (default: false)
-i,
      --interactive
                                        run in interactive mode (default: false)
-if, --interactive-first
                                        run in interactive mode and wait for input right away
(default: false)
-mli, --multiline-input
                                        allows you to write or paste multiple lines without ending
each in '\'
                                        prefix BOS to user inputs, preceding the `--in-prefix`
--in-prefix-bos
string
--in-prefix STRING
                                        string to prefix user inputs with (default: empty)
--in-suffix STRING
                                        string to suffix after user inputs with (default: empty)
--no-warmup
                                        skip warming up the model with an empty run
-gan, --grp-attn-n N
                                        group-attention factor (default: 1)
                                        (env: LLAMA_ARG_GRP_ATTN_N)
-gaw, --grp-attn-w N
                                        group-attention width (default: 512)
                                        (env: LLAMA_ARG_GRP_ATTN_W)
                                        set custom jinja chat template (default: template taken
--chat-template JINJA_TEMPLATE
from model's
                                        metadata)
                                        if suffix/prefix are specified, template will be disabled
                                        only commonly used templates are accepted:
                                        https://github.com/ggerganov/llama.cpp/wiki/Templates-
supported-by-llama_chat_apply_template
                                        (env: LLAMA_ARG_CHAT_TEMPLATE)
--simple-io
                                        use basic IO for better compatibility in subprocesses and
limited
                                        consoles
example usage:
 text generation:
                       CLI\llama-cli.exe -m your_model.gguf -p "I believe the meaning of life is"
-n 128
  chat (conversation): CLI\llama-cli.exe -m your_model.gguf -p "You are a helpful assistant" -cnv
```

Please how can I edit the help result? Is there somewhere in llama.cpp source code to edit it?







Answered by danbev 4 hours ago

Ah sorry, that part actually comes from main.cpp and not larg.cpp.

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danbev yesterday

Is there somewhere in llama.cpp source code to edit it?

The argument names and their descriptions can be found in common/arg.cpp.





2 replies



calebnwokocha 14 hours ago (Author)

edited -

Particularly, I am trying to edit:

```
CLI\llama-cli.exe -m your_model.gguf -p "I believe the meaning of [
 text generation:
life is" -n 128
 chat (conversation): CLI\llama-cli.exe -m your_model.gguf -p "You are a helpful assistant"
-cnv
```

I would like it to be:

```
-m your_model.gguf -p "I believe the meaning of life is" -n 128
                                                                                      Q
text generation:
chat (conversation): -m your_model.gguf -p "You are a helpful assistant" -cnv
```

Could not find where to edit this part at common/arg.cpp

Please help me. Thanks!





danbev 4 hours ago

Ah sorry, that part actually comes from main.cpp and not larg.cpp.



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Answer selected by calebnwokocha

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Events



calebnwokocha Marked an Answer 2h