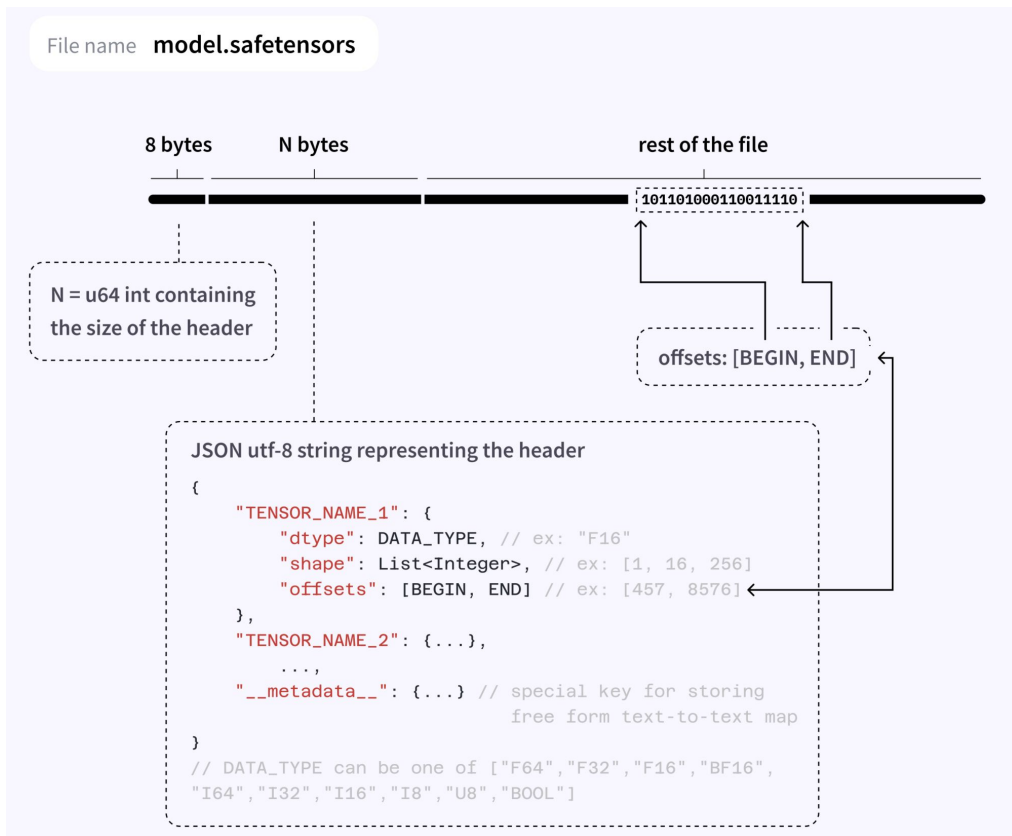


Safetensors

simple format for storing tensors safely (as opposed to pickle)
and that is still fast (zero-copy)

<https://huggingface.co/docs/safetensors/index>

How it works



Comparison with different formats

unsafe,
runs arbitrary code

Format	Safe	Zero-copy	Lazy loading	No file size limit	Layout control	Flexibility	Bfloat16/Fp8
pickle (PyTorch)	×	×	×	☳	×	☳	☳
H5 (Tensorflow)	☳	×	☳	☳	~	~	×
SavedModel (Tensorflow)	☳	×	×	☳	☳	×	☳
MsgPack (flax)	☳	☳	×	☳	×	×	☳
Protobuf (ONNX)	☳	×	×	×	×	×	☳
Cap'n'Proto	☳	☳	~	☳	☳	~	×
Arrow	?	?	?	?	?	?	×
Numpy (npz,npz)	☳	?	?	×	☳	×	×
pdparams (Paddle)	×	×	×	☳	×	☳	☳
SafeTensors	☳	☳	☳	☳	☳	×	☳

no bfloat16 support
vulnerable to zip-bombs
not zero-copy

super cool