(-1) x (1+ fraction)
Exponent-b

hessage

List turns out that FP8

representation has many advantages

over INT8 for inference, but

we need to carefully tune.

2 = 5. 2 ; express the quantized input,

<17

Scale factor s

HRNet, DeepLab V3, VTT, BERT-base, Res Net 18

E4M3, E5M2

NaN - 5, 1111, 1112

GPT3, int8 ()

- Countil, 1-sided=1 (4)

+) TEVATION WV777.

1118 reproduct challenge of my

D LDPC (64 /120) 2277 BERナがMM SUM Product Algorithm/ Min-Sum Algorithms マナ ビア. / 存ち ろり (MSA, SA)

Self - attention

Model Size VS Quantizations

Ly quantized model of 45 = model 725 (tend to degrade as model act lager) 1556.

temeraence of outliers.

Features:

 $| | | | | = | + \frac{1}{2} \times 0 + \frac{1}{2^2} \times |$ $= \frac{5}{4}$

= (-8,-7,-6): GPT2

w/outliers Twith,

127 11W. X-W. X112 LLM . int 8() hayer by layer, 1 8-bit Vector-wise ghant zution optimization. LO 16-bit decomposition. KD= knowledge 3) zero Quant = 13 MAN FAL distillation. precision quantization 4 orally consider GPT KD requires you to lond -3 style models (decoder - only). both teacher and student, @ Focus ing OND ON high. - precision anantization - oftimized transformer duantization (FPI6/ INT8) kernels. 3 KD = Knowledge distillation Who i teacher model. 1) Fine-grained hardware friendly Gemm quantization. WINTS cannot July apture different numerical ranges. Large knowledge distillation (multiplicand precision) real(2)/16-bit. end-to-end average latery Ly architecture. Volta, Turing, NVIDIA

Ampere.

sequential layer-by-layer KD

min 111; (XH) - 19 (X94) 12

CamScanner로 스캔하기

time = latehcy.

W8AS WIGALG 2 AN L) 128 = 28.13 4 Milliseconds BERT model -如何是到日日