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Dear SAGE Inquirer:

Thank you for this opportunity to introduce the SAGE product line. With its low-cost implementation of the 8 megabyte 80386 processor, SAGE IV microcomputers provide more performance (both speed and capacity) per dollar than any computer in history.

SAGE IV microcomputers can expand to six terminals, 1MB of zero wait-state RAM memory, and 1MB of Winchester hard disk. Other standard features of SAGE IV microcomputers include:

- DOS 3.31 System Operating System (CP/DOS, 1.11a, Multis-D, FCB, 40a, 80a, 80b, 80c, 80d, 80e, 80f, 80g, 80h, 80i, 80j, 80k, 80l, 80m, 80n, 80o, 80p, 80q, 80r, 80s, 80t, 80u, 80v, 80w, 80x, 80y, 80z, 81a, 81b, 81c, 81d, 81e, 81f, 81g, 81h, 81i, 81j, 81k, 81l, 81m, 81n, 81o, 81p, 81q, 81r, 81s, 81t, 81u, 81v, 81w, 81x, 81y, 81z, 82a, 82b, 82c, 82d, 82e, 82f, 82g, 82h, 82i, 82j, 82k, 82l, 82m, 82n, 82o, 82p, 82q, 82r, 82s, 82t, 82u, 82v, 82w, 82x, 82y, 82z, 83a, 83b, 83c, 83d, 83e, 83f, 83g, 83h, 83i, 83j, 83k, 83l, 83m, 83n, 83o, 83p, 83q, 83r, 83s, 83t, 83u, 83v, 83w, 83x, 83y, 83z, 84a, 84b, 84c, 84d, 84e, 84f, 84g, 84h, 84i, 84j, 84k, 84l, 84m, 84n, 84o, 84p, 84q, 84r, 84s, 84t, 84u, 84v, 84w, 84x, 84y, 84z, 85a, 85b, 85c, 85d, 85e, 85f, 85g, 85h, 85i, 85j, 85k, 85l, 85m, 85n, 85o, 85p, 85q, 85r, 85s, 85t, 85u, 85v, 85w, 85x, 85y, 85z, 86a, 86b, 86c, 86d, 86e, 86f, 86g, 86h, 86i, 86j, 86k, 86l, 86m, 86n, 86o, 86p, 86q, 86r, 86s, 86t, 86u, 86v, 86w, 86x, 86y, 86z, 87a, 87b, 87c, 87d, 87e, 87f, 87g, 87h, 87i, 87j, 87k, 87l, 87m, 87n, 87o, 87p, 87q, 87r, 87s, 87t, 87u, 87v, 87w, 87x, 87y, 87z, 88a, 88b, 88c, 88d, 88e, 88f, 88g, 88h, 88i, 88j, 88k, 88l, 88m, 88n, 88o, 88p, 88q, 88r, 88s, 88t, 88u, 88v, 88w, 88x, 88y, 88z, 89a, 89b, 89c, 89d, 89e, 89f, 89g, 89h, 89i, 89j, 89k, 89l, 89m, 89n, 89o, 89p, 89q, 89r, 89s, 89t, 89u, 89v, 89w, 89x, 89y, 89z, 90a, 90b, 90c, 90d, 90e, 90f, 90g, 90h, 90i, 90j, 90k, 90l, 90m, 90n, 90o, 90p, 90q, 90r, 90s, 90t, 90u, 90v, 90w, 90x, 90y, 90z, 91a, 91b, 91c, 91d, 91e, 91f, 91g, 91h, 91i, 91j, 91k, 91l, 91m, 91n, 91o, 91p, 91q, 91r, 91s, 91t, 91u, 91v, 91w, 91x, 91y, 91z, 92a, 92b, 92c, 92d, 92e, 92f, 92g, 92h, 92i, 92j, 92k, 92l, 92m, 92n, 92o, 92p, 92q, 92r, 92s, 92t, 92u, 92v, 92w, 92x, 92y, 92z, 93a, 93b, 93c, 93d, 93e, 93f, 93g, 93h, 93i, 93j, 93k, 93l, 93m, 93n, 93o, 93p, 93q, 93r, 93s, 93t, 93u, 93v, 93w, 93x, 93y, 93z, 94a, 94b, 94c, 94d, 94e, 94f, 94g, 94h, 94i, 94j, 94k, 94l, 94m, 94n, 94o, 94p, 94q, 94r, 94s, 94t, 94u, 94v, 94w, 94x, 94y, 94z, 95a, 95b, 95c, 95d, 95e, 95f, 95g, 95h, 95i, 95j, 95k, 95l, 95m, 95n, 95o, 95p, 95q, 95r, 95s, 95t, 95u, 95v, 95w, 95x, 95y, 95z, 96a, 96b, 96c, 96d, 96e, 96f, 96g, 96h, 96i, 96j, 96k, 96l, 96m, 96n, 96o, 96p, 96q, 96r, 96s, 96t, 96u, 96v, 96w, 96x, 96y, 96z, 97a, 97b, 97c, 97d, 97e, 97f, 97g, 97h, 97i, 97j, 97k, 97l, 97m, 97n, 97o, 97p, 97q, 97r, 97s, 97t, 97u, 97v, 97w, 97x, 97y, 97z, 98a, 98b, 98c, 98d, 98e, 98f, 98g, 98h, 98i, 98j, 98k, 98l, 98m, 98n, 98o, 98p, 98q, 98r, 98s, 98t, 98u, 98v, 98w, 98x, 98y, 98z, 99a, 99b, 99c, 99d, 99e, 99f, 99g, 99h, 99i, 99j, 99k, 99l, 99m, 99n, 99o, 99p, 99q, 99r, 99s, 99t, 99u, 99v, 99w, 99x, 99y, 99z, 00a, 00b, 00c, 00d, 00e, 00f, 00g, 00h, 00i, 00j, 00k, 00l, 00m, 00n, 00o, 00p, 00q, 00r, 00s, 00t, 00u, 00v, 00w, 00x, 00y, 00z, 01a, 01b, 01c, 01d, 01e, 01f, 01g, 01h, 01i, 01j, 01k, 01l, 01m, 01n, 01o, 01p, 01q, 01r, 01s, 01t, 01u, 01v, 01w, 01x, 01y, 01z, 02a, 02b, 02c, 02d, 02e, 02f, 02g, 02h, 02i, 02j, 02k, 02l, 02m, 02n, 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10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o, 10p, 10q, 10r, 10s, 10t, 10u, 10v, 10w, 10x, 10y, 10z, 11a, 11b, 11c, 11d, 11e, 11f, 11g, 11h, 11i, 11j, 11k, 11l, 11m, 11n, 11o, 11p, 11q, 11r, 11s, 11t, 11u, 11v, 11w, 11x, 11y, 11z, 12a, 12b, 12c, 12d, 12e, 12f, 12g, 12h, 12i, 12j, 12k, 12l, 12m, 12n, 12o, 12p, 12q, 12r, 12s, 12t, 12u, 12v, 12w, 12x, 12y, 12z, 13a, 13b, 13c, 13d, 13e, 13f, 13g, 13h, 13i, 13j, 13k, 13l, 13m, 13n, 13o, 13p, 13q, 13r, 13s, 13t, 13u, 13v, 13w, 13x, 13y, 13z, 14a, 14b, 14c, 14d, 14e, 14f, 14g, 14h, 14i, 14j, 14k, 14l, 14m, 14n, 14o, 14p, 14q, 14r, 14s, 14t, 14u, 14v, 14w, 14x, 14y, 14z, 15a, 15b, 15c, 15d, 15e, 15f, 15g, 15h, 15i, 15j, 15k, 15l, 15m, 15n, 15o, 15p, 15q, 15r, 15s, 15t, 15u, 15v, 15w, 15x, 15y, 15z, 16a, 16b, 16c, 16d, 16e, 16f, 16g, 16h, 16i, 16j, 16k, 16l, 16m, 16n, 16o, 16p, 16q, 16r, 16s, 16t, 16u, 16v, 16w, 16x, 16y, 16z, 17a, 17b, 17c, 17d, 17e, 17f, 17g, 17h, 17i, 17j, 17k, 17l, 17m, 17n, 17o, 17p, 17q, 17r, 17s, 17t, 17u, 17v, 17w, 17x, 17y, 17z, 18a, 18b, 18c, 18d, 18e, 18f, 18g, 18h, 18i, 18j, 18k, 18l, 18m, 18n, 18o, 18p, 18q, 18r, 18s, 18t, 18u, 18v, 18w, 18x, 18y, 18z, 19a, 19b, 19c, 19d, 19e, 19f, 19g, 19h, 19i, 19j, 19k, 19l, 19m, 19n, 19o, 19p, 19q, 19r, 19s, 19t, 19u, 19v, 19w, 19x, 19y, 19z, 20a, 20b, 20c, 20d, 20e, 20f, 20g, 20h, 20i, 20j, 20k, 20l, 20m, 20n, 20o, 20p, 20q, 20r, 20s, 20t, 20u, 20v, 20w, 20x, 20y, 20z, 21a, 21b, 21c, 21d, 21e, 21f, 21g, 21h, 21i, 21j, 21k, 21l, 21m, 21n, 21o, 21p, 21q, 21r, 21s, 21t, 21u, 21v, 21w, 21x, 21y, 21z, 22a, 22b, 22c, 22d, 22e, 22f, 22g, 22h, 22i, 22j, 22k, 22l, 22m, 22n, 22o, 22p, 22q, 22r, 22s, 22t, 22u, 22v, 22w, 22x, 22y, 22z, 23a, 23b, 23c, 23d, 23e, 23f, 23g, 23h, 23i, 23j, 23k, 23l, 23m, 23n, 23o, 23p, 23q, 23r, 23s, 23t, 23u, 23v, 23w, 23x, 23y, 23z, 24a, 24b, 24c, 24d, 24e, 24f, 24g, 24h, 24i, 24j, 24k, 24l, 24m, 24n, 24o, 24p, 24q, 24r, 24s, 24t, 24u, 24v, 24w, 24x, 24y, 24z, 25a, 25b, 25c, 25d, 25e, 25f, 25g, 25h, 25i, 25j, 25k, 25l, 25m, 25n, 25o, 25p, 25q, 25r, 25s, 25t, 25u, 25v, 25w, 25x, 25y, 25z, 26a, 26b, 26c, 26d, 26e, 26f, 26g, 26h, 26i, 26j, 26k, 26l, 26m, 26n, 26o, 26p, 26q, 26r, 26s, 26t, 26u, 26v, 26w, 26x, 26y, 26z, 27a, 27b, 27c, 27d, 27e, 27f, 27g, 27h, 27i, 27j, 27k, 27l, 27m, 27n, 27o, 27p, 27q, 27r, 27s, 27t, 27u, 27v, 27w, 27x, 27y, 27z, 28a, 28b, 28c, 28d, 28e, 28f, 28g, 28h, 28i, 28j, 28k, 28l, 28m, 28n, 28o, 28p, 28q, 28r, 28s, 28t, 28u, 28v, 28w, 28x, 28y, 28z, 29a, 29b, 29c, 29d, 29e, 29f, 29g, 29h, 29i, 29j, 29k, 29l, 29m, 29n, 29o, 29p, 29q, 29r, 29s, 29t, 29u, 29v, 29w, 29x, 29y, 29z, 30a, 30b, 30c, 30d, 30e, 30f, 30g, 30h, 30i, 30j, 30k, 30l, 30m, 30n, 30o, 30p, 30q, 30r, 30s, 30t, 30u, 30v, 30w, 30x, 30y, 30z, 31a, 31b, 31c, 31d, 31e, 31f, 31g, 31h, 31i, 31j, 31k, 31l, 31m, 31n, 31o, 31p, 31q, 31r, 31s, 31t, 31u, 31v, 31w, 31x, 31y, 31z, 32a, 32b, 32c, 32d, 32e, 32f, 32g, 32h, 32i, 32j, 32k, 32l, 32m, 32n, 32o, 32p, 32q, 32r, 32s, 32t, 32u, 32v, 32w, 32x, 32y, 32z, 33a, 33b, 33c, 33d, 33e, 33f, 33g, 33h, 33i, 33j, 33k, 33l, 33m, 33n, 33o, 33p, 33q, 33r, 33s, 33t, 33u, 33v, 33w, 33x, 33y, 33z, 34a, 34b, 34c, 34d, 34e, 34f, 34g, 34h, 34i, 34j, 34k, 34l, 34m, 34n, 34o, 34p, 34q, 34r, 34s, 34t, 34u, 34v, 34w, 34x, 34y, 34z, 35a, 35b, 35c, 35d, 35e, 35f, 35g, 35h, 35i, 35j, 35k, 35l, 35m, 35n, 35o, 35p, 35q, 35r, 35s, 35t, 35u, 35v, 35w, 35x, 35y, 35z, 36a, 36b, 36c, 36d, 36e, 36f, 36g, 36h, 36i, 36j, 36k, 36l, 36m, 36n, 36o, 36p, 36q, 36r, 36s, 36t, 36u, 36v, 36w, 36x, 36y, 36z, 37a, 37b, 37c, 37d, 37e, 37f, 37g, 37h, 37i, 37j, 37k, 37l, 37m, 37n, 37o, 37p, 37q, 37r, 37s, 37t, 37u, 37v, 37w, 37x, 37y, 37z, 38a, 38b, 38c, 38d, 38e, 38f, 38g, 38h, 38i, 38j, 38k, 38l, 38m, 38n, 38o, 38p, 38q, 38r, 38s, 38t, 38u, 38v, 38w, 38x, 38y, 38z, 39a, 39b, 39c, 39d, 39e, 39f, 39g, 39h, 39i, 39j, 39k, 39l, 39m, 39n, 39o, 39p, 39q, 39r, 39s, 39t, 39u, 39v, 39w, 39x, 39y, 39z, 40a, 40b, 40c, 40d, 40e, 40f, 40g, 40h, 40i, 40j, 40k, 40l, 40m, 40n, 40o, 40p, 40q, 40r, 40s, 40t, 40u, 40v, 40w, 40x, 40y, 40z, 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48s, 48t, 48u, 48v, 48w, 48x, 48y, 48z, 49a, 49b, 49c, 49d, 49e, 49f, 49g, 49h, 49i, 49j, 49k, 49l, 49m, 49n, 49o, 49p, 49q, 49r, 49s, 49t, 49u, 49v, 49w, 49x, 49y, 49z, 50a, 50b, 50c, 50d, 50e, 50f, 50g, 50h, 50i, 50j, 50k, 50l, 50m, 50n, 50o, 50p, 50q, 50r, 50s, 50t, 50u, 50v, 50w, 50x, 50y, 50z, 51a, 51b, 51c, 51d, 51e, 51f, 51g, 51h, 51i, 51j, 51k, 51l, 51m, 51n, 51o, 51p, 51q, 51r, 51s, 51t, 51u, 51v, 51w, 51x, 51y, 51z, 52a, 52b, 52c, 52d, 52e, 52f, 52g, 52h, 52i, 52j, 52k, 52l, 52m, 52n, 52o, 52p, 52q, 52r, 52s, 52t, 52u, 52v, 52w, 52x, 52y, 52z, 53a, 53b, 53c, 53d, 53e, 53f, 53g, 53h, 53i, 53j, 53k, 53l, 53m, 53n, 53o, 53p, 53q, 53r, 53s, 53t, 53u, 53v, 53w, 53x, 53y, 53z, 54a, 54b, 54c, 54d, 54e, 54f, 54g, 54h, 54i, 54j, 54k, 54l, 54m, 54n, 54o, 54p, 54q, 54r, 54s, 54t, 54u, 54v, 54w, 54x, 54y, 54z, 55a, 55b, 55c, 55d, 55e, 55f, 55g, 55h, 55i, 55j, 55k, 55l, 55m, 55n, 55o, 55p, 55q, 55r, 55s, 55t, 55u, 55v, 55w, 55x, 55y, 55z, 56a, 56b, 56c, 56d, 56e, 56f, 56g, 56h, 56i, 56j, 56k, 56l, 56m, 56n, 56o, 56p, 56q, 56r, 56s, 56t, 56u, 56v, 56w, 56x, 56y, 56z, 57a, 57b, 57c, 57d, 57e, 57f, 57g, 57h, 57i, 57j, 57k, 57l, 57m, 57n, 57o, 57p, 57q, 57r, 57s, 57t, 57u, 57v, 57w, 57x, 57y, 57z, 58a, 58b, 58c, 58d, 58e, 58f, 58g, 58h, 58i, 58j, 58k, 58l, 58m, 58n, 58o, 58p, 58q, 58r, 58s, 58t, 58u, 58v, 58w, 58x, 58y, 58z, 59a, 59b, 59c, 59d, 59e, 59f, 59g, 59h, 59i, 59j, 59k, 59l, 59m, 59n, 59o, 59p, 59q, 59r, 59s, 59t, 59u, 59v, 59w, 59x, 59y, 59z, 60a, 60b, 60c, 60d, 60e, 60f, 60g, 60h, 60i, 60j, 60k, 60l, 60m, 60n, 60o, 60p, 60q, 60r, 60s, 60t, 60u, 60v, 60w, 60x, 60y, 60z, 61a, 61b, 61c, 61d, 61e, 61f, 61g, 61h, 61i, 61j, 61k, 61l, 61m, 61n, 61o, 61p, 61q, 61r, 61s, 61t, 61u, 61v, 61w, 61x, 61y, 61z, 62a, 62b, 62c, 62d, 62e, 62f, 62g, 62h, 62i, 62j, 62k, 62l, 62m, 62n, 62o, 62p, 62q, 62r, 62s, 62t, 62u, 62v, 62w, 62x, 62y, 62z, 63a, 63b, 63c, 63d, 63e, 63f, 63g, 63h, 63i, 63j, 63k, 63l, 63m, 63n, 63o, 63p, 63q, 63r, 63s, 63t, 63u, 63v, 63w, 63x, 63y, 63z, 64a, 64b, 64c, 64d, 64e, 64f, 64g, 64h, 64i, 64j, 64k, 64l, 64m, 64n, 64o, 64p, 64q, 64r, 64s, 64t, 64u, 64v, 64w, 64x, 64y, 64z, 65a, 65b, 65c, 65d, 65e, 65f, 65g, 65h, 65i, 65j, 65k, 65l, 65m, 65n, 65o, 65p, 65q, 65r, 65s, 65t, 65u, 65v, 65w, 65x, 65y, 65z, 66a, 66b, 66c, 66d, 66e, 66f, 66g, 66h, 66i, 66j, 66k, 66l, 66m, 66n, 66o, 66p, 66q, 66r, 66s, 66t, 66u, 66v, 66w, 66x, 66y, 66z, 67a, 67b, 67c, 67d, 67e, 67f, 67g, 67h, 67i, 67j, 67k, 67l, 67m, 67n, 67o, 67p, 67q, 67r, 67s, 67t, 67u, 67v, 67w, 67x, 67y, 67z, 68a, 68b, 68c, 68d, 68e, 68f, 68g, 68h, 68i, 68j, 68k, 68l, 68m, 68n, 68o, 68p, 68q, 68r, 68s, 68t, 68u, 68v, 68w, 68x, 68y, 68z, 69a, 69b, 69c, 69d, 69e, 69f, 69g, 69h, 69i, 69j, 69k, 69l, 69m, 69n, 69o, 69p, 69q, 69r, 69s, 69t, 69u, 69v, 69w, 69x, 69y, 69z, 70a, 70b, 70c, 70d, 70e, 70f, 70g, 70h, 70i, 70j, 70k, 70l, 70m, 70n, 70o, 70p, 70q, 70r, 70s, 70t, 70u, 70v, 70w, 70x, 70y, 70z, 71a, 71b, 71c, 71d, 71e, 71f, 71g, 71h, 71i, 71j, 71k, 71l, 71m, 71n, 71o, 71p, 71q, 71r, 71s, 71t, 71u, 71v, 71w, 71x, 71y, 71z, 72a, 72b, 72c, 72d, 72e, 72f, 72g, 72h, 72i, 72j, 72k, 72l, 72m, 72n, 72o, 72p, 72q, 72r, 72s, 72t, 72u, 72v

SAGE

COMPUTER TECHNOLOGY

PRICE LIST

SEPTEMBER 1, 1983

NOTE:

- These current prices are valid until updated.
- See volume orders for 10, 25 and 50 user license orders.
- Contact your local dealer for educational discounts.

All SAGE microcomputer shipments contain the following standard equipment:

- | | |
|-------------------------------------|-----------------------------------|
| - SAGE program version 4.12 | - IBM®/XT hard programmer |
| - Power supply | - 10" Hercules disk |
| - 80000 word assembler | - 10" floppy disk of parity bit |
| - Microprogrammed editor | - Hercules language |
| - Editor utilities | - Set of two 512Kbit serial ports |
| - Basic 2 manual, 100 pages | - Assembler printer port |
| - Resident type library, 100 pages | - Hercules clock and keyboard |
| - Hercules I/O Monitor System | - Guide to SAGE, 100pg, 100 pages |
| - SAGE Monitor System | - SAGE 2 Reference System |
| - Teletype Spreadsheet Data Program | |

SAGE COMPUTER SYSTEMS

PART #	DESCRIPTION	PRICE
80000	1pc 80000 base 10 with one SAGE floppy drive language and assembler 2.000	\$2900.00
80001	1pc 80001 base 10 with two SAGE floppy drives language and assembler 2.000	4700.00
80002	1pc 80002 base 10 with two SAGE floppy drives & assembler, MicroMonitor, IBM disk	7300.00
80003	1pc 80003 base 10 with one SAGE floppy drive and one fixed disk, assembler, MicroMonitor, IBM disk	7800.00
80004	1pc 80004 base 10 with one SAGE floppy drive and one fixed disk & assembler, MicroMonitor, IBM disk	8300.00

IBM EXPANSION

80005	1 unit of IBM 20K Bytes of Parity Bit	\$300.00
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NOTE:

- Minimum IBM for all SAGE microcomputers is 20K.
- 1 unit of 20Kbit is required to install IBM disk 20K to IBM disk.
- 2 units of 20Kbit are required to install IBM disk 20K to IBM disk (1 Meg).
- Floppy-based IBM is a unit with a system of IBM disk.
- IBM language IBM is required to install IBM's MicroMonitor.

PERIPHERALS

80006	IBM XT Hercules	\$290.00
80007	MicroMonitor 20 200-20000 printer	420.00
80008	MicroMonitor 20 200-20000 printer	420.00
80009	MicroMonitor 20 200-20000 printer	420.00
80010	MicroMonitor 20 200-20000 printer	420.00
80011	IBM XT 200 printer	120.00
80012	IBM XT 200 printer	120.00
80013	IBM XT 200 printer	120.00
80014	IBM XT 200 printer	120.00
80015	IBM XT 200 printer	120.00
80016	IBM XT 200 printer	120.00
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80019	IBM XT 200 printer	120.00
80020	IBM XT 200 printer	120.00
80021	IBM XT 200 printer	120.00
80022	IBM XT 200 printer	120.00
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80094	IBM XT 200 printer	120.00
80095	IBM XT 200 printer	120.00
80096	IBM XT 200 printer	120.00
80097	IBM XT 200 printer	120.00
80098	IBM XT 200 printer	120.00
80099	IBM XT 200 printer	120.00
80100	IBM XT 200 printer	120.00

SAGE

COMPUTER TECHNOLOGY

PERIPHERALS

SAGE microcomputers are designed to interface with hundreds of different peripherals. This flexibility is accomplished through the use of SMARTS and SMART programs which are provided on distribution disksette with every computer.

When a system is installed, a system generation procedure is done to properly configure the SAGE microcomputer to your peripherals. This system generation procedure requires reformatting your terminal and printer manuals to determine cable requirements and software configuration. This generally requires 15-30 min to four hours.

This procedure is somewhat simplified for the following terminals as SAGE provides software modules for their interface on your distribution disksette.

Teletype DEC	Fredkin 100	Smith 801
Teletype DEC	EMCC 1230	Sanclinton 1000
Teletype 980	Leur 8000	IBM Report 99
Teletype 980	DEC VTEC	IBM Report 99

SAGE can simplify this procedure even more by providing terminals, printers and cables which we have already interfaced and tested. A disk disksette for the SAGE IV terminal (Fredkin 100) is also included in the package. The purchase of your peripherals from SAGE will allow you to have your system operational within minutes after you receive it.

The following peripherals are currently distributed by SAGE:

SAGE IV terminal (Fredkin 100) - This low-cost terminal has excellent resolution, a detachable keyboard and graphics characters. The screen dimensions are 24 x 80 with a reverse video feature.

Smith Winclose 80 dot-matrix printer - 80 CPS, 80 or 128 columns, 8.5 inch wide paper, graphics character set.

Smith Winclose 81 dot-matrix printer - 100 CPS, 80 columns, 8.5 inch wide paper, graphics character set.

Smith Winclose 83 dot-matrix printer - 180 CPS, 128 or 224 columns, 14 7/8 inch wide paper, graphics character set.

Smith Winclose 84 dot-matrix printer - 300 CPS, 128 or 224 columns, 14 7/8 inch wide paper, high-resolution graphics, dual pass correspondence quality.

IBM Report 99 dot-matrix printer - 80 CPS, 128 or 128 columns, 14 7/8 inch wide paper, blue letter quality printing, proportional spacing.

SAMPLE SYSTEM CONFIGURATIONS

There are many different ways to configure a IBM compatible system depend on whether you intend to use it as a desktop, a workstation, a server, or a network node. The number of disk drives, the number of printers, and the type of peripheral will vary according to how you plan to use your IBM compatible.

The following examples should be used only as guidelines to your planning. To recommend that you consult with your local dealer or a factory-trained before determining a final configuration.

The Controller

This system is typically used as a dedicated industrial controller. It is the most powerful IBM compatible supported by IBM. Within just a few lines:

IBM XT with one 5MB disk drive	1000.00
Expansion to 1 MB of RAM	100.00
IBM XT terminal cable	20.00
Total	1120.00

The Two Year Business System

This configuration is typical of a two year system. It is expanded to 2MB of RAM, which will lead to more utilization of IBM's software, which is useful in every IBM microcomputer.

IBM XT with two 5MB disk drives	1200.00
Expansion to 2 MB of RAM	200.00
IBM XT terminal cable	20.00
Printer expansion to printer	100.00
IBM XT terminal cable	20.00
IBM XT terminal cable	20.00
Total	1560.00

The Three Year Business System

This system can be used as a general system for a small business. It includes a hard disk drive, which allows for more efficient use of IBM's software, which is useful in every IBM microcomputer. The 3 MB of RAM allows the integrity of your IBM accounting system.

IBM XT with one 5MB disk drive	1000.00
and one 5 MB hard disk drive	1000.00
Expansion to 3 MB of RAM	300.00
IBM XT terminal cable	20.00
Printer expansion to printer	100.00
IBM XT terminal cable	20.00
Total	2440.00

The Six Year Business System

This six year system can provide service to a small-to-medium-sized business. It includes a hard disk drive, which allows for more efficient use of IBM's software, which is useful in every IBM microcomputer. The 6 MB of RAM allows the integrity of your IBM accounting system. The 6 MB of RAM allows the integrity of your IBM accounting system.

IBM XT with one 5MB disk drive	1000.00
and one 5 MB hard disk drive	1000.00
Expansion to 6 MB of RAM	600.00
IBM XT terminal cable	20.00
Printer expansion to printer	100.00
IBM XT terminal cable	20.00
IBM XT terminal cable	20.00
Total	2760.00

SAGE

COMPUTER TECHNOLOGY

APPLICATION SOFTWARE

Application software to customize systems from the following sources:

*** Arizona Computer Systems ***

P.O. Box 40076, Tucson, AZ 85717 - phone (502) 622 2076

ADWAVE is a business management system for the Sage II. It is an advanced software tool to help users organize, retrieve, update, select, and report from database files. Mailing list capability is included, and reports can go to screen, printer, or disk files. A tutorial is provided for leading the beginner step by step. \$120

*** Microfinancial Corp. ***

1240 E. Valley Blvd., City of Industry, CA 91744 - phone (818) 944 6200

The **FINWARE** application packages have features that may be selected, added, or deleted to meet your needs. Systems may be tailored before, and after, total setup, installation. All packages may be integrated, and each is database oriented with built-in report writer. \$400 (one-time fee).

GENERAL LEDGER will accommodate small or large companies. Information can automatically come from other packages, or be entered manually. Audit trails, up-to-the-minute analysis, many other standard features. \$1000

ACCOUNTS RECEIVABLE can be used manually, or interfaced with the order processing system for automatic invoicing and general ledger updates. \$1000

ACCOUNTS PAYABLE can increase profits through reduced labor, cash flow forecasting, automatic payments, etc. It can interface to general ledger, inventory, and purchasing, or operate stand-alone. \$1000

ORDER PROCESSING speeds processing and billing, reduces bad debts and inventory problems. Includes business inquiry, notes, automatic calculations, pricing lists, packing slips, payment terms. \$1000

INVENTORY system updates inventory with automatic reordering, cross reference of parts, vendor and barcodes processing, vendor lead time tracking, planning and perpetual inventory, general ledger interface. \$900

FINANCIAL has automatic vendor rates and quantity calculations, with a balance of automatic features and manual controls. \$900

PAYROLL has a full range of automatic payroll processing functions, with annual overrides to handle even very unusual situations. It is payroll processor, has W-2 and check printing, quarterly and annual reports, audit trails, and instant inquiry. \$1500

SAGE ANALYSIS system provides up-to-the-minute data on sales and trends. Online updates and analysis by various criteria are included. \$700

***** Microfinancial Corp. *****

1100 E. Valley Blvd., City of Industry, CA 91744 - phone (714) 962-8007

JOB COSTING automatically records costs and revenues through general ledger to provide instant access to variance analysis against estimates. 10000

FLEXIBLE DEVELOPMENT SYSTEM allows you to quickly develop customized systems for fast generation of new markets. Easy support, automatic self-determination, and consistent operation. 15000

***** PDI Systems *****

Box 111, 118 North Main St., New Can, NY 14111 - phone (516) 504-7421

LISP EXPERIENCE with over 80 basic LISP functions built in. Allow user to write most applications without further support facilities. EXPERIENT-PL is based on U. of Texas LISP, and has debugging facilities and efficient memory management. 1111

CODE ASSISTANCE PACKAGE allows you to generate better code assembly language files for IBM, 36, 4000, 309-15/20-11, 3701, 4800, 4804, 5900 microprocessors. 1271

PFM (Personal File Access System) is an easy to use home database package. It uses a file name index for speed and efficiency, and has protected files and record locks, optimized performance with no file reorganization. Can be built in to your own programs. 1371

MAKEM is a writing (text program in Pascal), with macros included, so you can tailor it to your own needs. Sub-structure and writing are separated, as well as looking at the disk directory without leaving the program. 1111

PLAN 80 financial planning and analysis software gives ability to plan and analyze with the computer's ability to calculate and process information quickly and accurately. Includes what-if capabilities, easy change capability for re-evaluation of parameters, and clear definition of problems. 1241

IMP (Instant Mathematical Programming) allows you to state your problems in algebra as well as arithmetic. It will re-arrange and re-compute your equations and then use a variable iteration procedure to converge on a solution. It checks your work and allows comments. 1200

AMP (Advanced System Editor) is based on the popular p-System editor that comes as part of every Page II. It allows large file editing, user-defined functions, optional key shortcuts, change logging, joint mode editing, nested editing, and system interface for executing system functions without leaving the editor. 1150

MPK 1000 formatter allows you to create documents as diverse as single business letters, individual papers, contracts, and program source manuals. Self-adjustable for all printers. 1100

MPRI-CRUC helps plan new units and develop special plans for nutritional problem cases. It is designed specifically for Miller's dietetics. MICROFINCORP., 61 Westwood Blvd. Includes 100 common foods. 1000

MEMOTION is an advanced medical office management package designed to support 1 to 20 health centers. It includes estimated billing, appointment, insurance form processing, collection lists, standing orders, and ledger updates. \$1000 to \$4000 (depends on configuration)

SAGE

COMPUTER TECHNOLOGY

ERATOSTHENES' SIEVE PRIME NUMBER

The following is a comparison chart of the Sage and other logic Manufacturer times as compared to the benchmark study published in ENR magazine (Oct. 25). The chart demonstrates that Sage executes p-Code faster than any other existing microcomputer, and this is accompanied by performance advantages for native and assembly code.

	p-Code (Pascal seconds)	native code (Pascal seconds)	native code (Assembly seconds)
Sage 1-81000	41	42	1.0
Pascal-800	64	66	66
Multigenie	63	66	66
Multima-6500	75	73	2.05
Z80	156	18.7	4.8
8086	120	10.2	66
IBMPC 8088	647	10.2	4.2
S-990	187	12.8	66
Tandy 100-801000 II	234	NA	NA
Tandy 20-11	347	NA	NA
Apple II	516	NA	NA
PDP-11/70	NA	2.6	NA
PDP-11/60	NA	4.8	NA
HP-3000	NA	200	NA

COMPILATION

The Sage with RAM-Disk implemented will compile Pascal source code, Version M.1 of a code of approximately 1888 lines per minute, or 147 lines/minute for a PDP11/Apple II.

DISK PERFORMANCE

The Floppy Disk interface to the Sage is entirely interrupt driven and does nothing but only sector identifying or deleting. It will transfer 25 Kbytes in approximately one second of the entire RAM-Disk which is 284 Kbytes in 17 seconds including stepping the disk. The disk interface to the Sage is a direct buffer interface and will transfer 160 K to 400 K per second.